

すきプリ 中学数学

一次方程式の計算【基本】

もくじ

一次方程式の計算【移項】

一次方程式の計算【係数で割る】

一次方程式の計算【まとめ】

問題

次の方程式を解きましょう。

1

$$9x - 2 = 8x - 4$$

2

$$-9x - 3 = -10x + 4$$

3

$$-8x + 4 = -9x - 4$$

4

$$-6x + 2 = -7x + 8$$

5

$$8x - 8 = 7x - 5$$

6

$$-5x + 7 = -6x - 2$$

7

$$2x = -3 + x$$

8

$$-3x - 9 = -4x - 17$$

9

$$-7x - 3 = -8x - 8$$

10

$$8x + 4 = 7x + 12$$

1

$$\begin{aligned}9x - 2 &= 8x - 4 \\9x - 8x &= -4 + 2 \\x &= -2\end{aligned}$$

2

$$\begin{aligned}-9x - 3 &= -10x + 4 \\-9x + 10x &= 4 + 3 \\x &= 7\end{aligned}$$

3

$$\begin{aligned}-8x + 4 &= -9x - 4 \\-8x + 9x &= -4 - 4 \\x &= -8\end{aligned}$$

4

$$\begin{aligned}-6x + 2 &= -7x + 8 \\-6x + 7x &= 8 - 2 \\x &= 6\end{aligned}$$

5

$$\begin{aligned}8x - 8 &= 7x - 5 \\8x - 7x &= -5 + 8 \\x &= 3\end{aligned}$$

6

$$\begin{aligned}-5x + 7 &= -6x - 2 \\-5x + 6x &= -2 - 7 \\x &= -9\end{aligned}$$

7

$$\begin{aligned}2x &= -3 + x \\2x - x &= -3 \\x &= -3\end{aligned}$$

8

$$\begin{aligned}-3x - 9 &= -4x - 17 \\-3x + 4x &= -17 + 9 \\x &= -8\end{aligned}$$

9

$$\begin{aligned}-7x - 3 &= -8x - 8 \\-7x + 8x &= -8 + 3 \\x &= -5\end{aligned}$$

10

$$\begin{aligned}8x + 4 &= 7x + 12 \\8x - 7x &= 12 - 4 \\x &= 8\end{aligned}$$

①

$$-10x - 5 = -11x - 7$$

②

$$-9x - 4 = -10x - 13$$

③

$$-3x + 2 = -4x - 6$$

④

$$-5x = 4 - 6x$$

⑤

$$4x + 9 = 3x + 14$$

⑥

$$-2x + 3 = -3x + 1$$

⑦

$$-x + 9 = -2x + 4$$

⑧

$$-10x - 2 = -11x + 7$$

⑨

$$-6x + 7 = -7x$$

⑩

$$9x - 5 = 8x + 1$$

1

$$\begin{aligned}-10x - 5 &= -11x - 7 \\ -10x + 11x &= -7 + 5 \\ x &= -2\end{aligned}$$

2

$$\begin{aligned}-9x - 4 &= -10x - 13 \\ -9x + 10x &= -13 + 4 \\ x &= -9\end{aligned}$$

3

$$\begin{aligned}-3x + 2 &= -4x - 6 \\ -3x + 4x &= -6 - 2 \\ x &= -8\end{aligned}$$

4

$$\begin{aligned}-5x &= 4 - 6x \\ -5x + 6x &= 4 \\ x &= 4\end{aligned}$$

5

$$\begin{aligned}4x + 9 &= 3x + 14 \\ 4x - 3x &= 14 - 9 \\ x &= 5\end{aligned}$$

6

$$\begin{aligned}-2x + 3 &= -3x + 1 \\ -2x + 3x &= 1 - 3 \\ x &= -2\end{aligned}$$

7

$$\begin{aligned}-x + 9 &= -2x + 4 \\ -x + 2x &= 4 - 9 \\ x &= -5\end{aligned}$$

8

$$\begin{aligned}-10x - 2 &= -11x + 7 \\ -10x + 11x &= 7 + 2 \\ x &= 9\end{aligned}$$

9

$$\begin{aligned}-6x + 7 &= -7x \\ -6x + 7x &= -7 \\ x &= -7\end{aligned}$$

10

$$\begin{aligned}9x - 5 &= 8x + 1 \\ 9x - 8x &= 1 + 5 \\ x &= 6\end{aligned}$$

1

$$9x - 9 = 8x - 1$$

2

$$-6x + 10 = -7x + 6$$

3

$$4x + 6 = 3x + 5$$

4

$$-3x + 7 = -4x + 6$$

5

$$10x + 2 = 9x + 4$$

6

$$-5x - 9 = -6x - 18$$

7

$$x - 8 = -4$$

8

$$-10x + 6 = -11x + 14$$

9

$$2x + 10 = x + 9$$

10

$$-6x + 6 = -7x + 10$$

1

$$\begin{aligned}9x - 9 &= 8x - 1 \\9x - 8x &= -1 + 9 \\x &= 8\end{aligned}$$

2

$$\begin{aligned}-6x + 10 &= -7x + 6 \\-6x + 7x &= 6 - 10 \\x &= -4\end{aligned}$$

3

$$\begin{aligned}4x + 6 &= 3x + 5 \\4x - 3x &= 5 - 6 \\x &= -1\end{aligned}$$

4

$$\begin{aligned}-3x + 7 &= -4x + 6 \\-3x + 4x &= 6 - 7 \\x &= -1\end{aligned}$$

5

$$\begin{aligned}10x + 2 &= 9x + 4 \\10x - 9x &= 4 - 2 \\x &= 2\end{aligned}$$

6

$$\begin{aligned}-5x - 9 &= -6x - 18 \\-5x + 6x &= -18 + 9 \\x &= -9\end{aligned}$$

7

$$\begin{aligned}x - 8 &= -4 \\x &= -4 + 8 \\x &= 4\end{aligned}$$

8

$$\begin{aligned}-10x + 6 &= -11x + 14 \\-10x + 11x &= 14 - 6 \\x &= 8\end{aligned}$$

9

$$\begin{aligned}2x + 10 &= x + 9 \\2x - x &= 9 - 10 \\x &= -1\end{aligned}$$

10

$$\begin{aligned}-6x + 6 &= -7x + 10 \\-6x + 7x &= 10 - 6 \\x &= 4\end{aligned}$$

1

$$9x + 4 = 8x + 8$$

2

$$9x + 8 = 8x + 10$$

3

$$8x - 10 = 7x - 5$$

4

$$-6x - 6 = -7x + 1$$

5

$$-8x + 8 = -9x + 13$$

6

$$2x + 8 = x + 9$$

7

$$-7x - 1 = -8x + 7$$

8

$$5x - 1 = 4x - 3$$

9

$$4x - 1 = 3x - 10$$

10

$$-3x = -1 - 4x$$

1

$$\begin{aligned}9x + 4 &= 8x + 8 \\9x - 8x &= 8 - 4 \\x &= 4\end{aligned}$$

2

$$\begin{aligned}9x + 8 &= 8x + 10 \\9x - 8x &= 10 - 8 \\x &= 2\end{aligned}$$

3

$$\begin{aligned}8x - 10 &= 7x - 5 \\8x - 7x &= -5 + 10 \\x &= 5\end{aligned}$$

4

$$\begin{aligned}-6x - 6 &= -7x + 1 \\-6x + 7x &= 1 + 6 \\x &= 7\end{aligned}$$

5

$$\begin{aligned}-8x + 8 &= -9x + 13 \\-8x + 9x &= 13 - 8 \\x &= 5\end{aligned}$$

6

$$\begin{aligned}2x + 8 &= x + 9 \\2x - x &= 9 - 8 \\x &= 1\end{aligned}$$

7

$$\begin{aligned}-7x - 1 &= -8x + 7 \\-7x + 8x &= 7 + 1 \\x &= 8\end{aligned}$$

8

$$\begin{aligned}5x - 1 &= 4x - 3 \\5x - 4x &= -3 + 1 \\x &= -2\end{aligned}$$

9

$$\begin{aligned}4x - 1 &= 3x - 10 \\4x - 3x &= -10 + 1 \\x &= -9\end{aligned}$$

10

$$\begin{aligned}-3x &= -1 - 4x \\-3x + 4x &= -1 \\x &= -1\end{aligned}$$

問題

次の方程式を解きましょう。

①

$$-15x = -45$$

②

$$-7x = \frac{21}{2}$$

③

$$7x = -\frac{14}{5}$$

④

$$-11x = 88$$

⑤

$$5x = 30$$

⑥

$$15x = -5$$

⑦

$$-10x = -60$$

⑧

$$6x = -8$$

1

$$\begin{aligned} -15x &= -45 \\ -15x \div (-15) &= -45 \div (-15) \\ x &= 3 \end{aligned}$$

2

$$\begin{aligned} -7x &= \frac{21}{2} \\ -7x \div (-7) &= \frac{21}{2} \div (-7) \\ x &= -\frac{3}{2} \end{aligned}$$

3

$$\begin{aligned} 7x &= -\frac{14}{5} \\ 7x \div 7 &= -\frac{14}{5} \div 7 \\ x &= -\frac{2}{5} \end{aligned}$$

4

$$\begin{aligned} -11x &= 88 \\ -11x \div (-11) &= 88 \div (-11) \\ x &= -8 \end{aligned}$$

5

$$\begin{aligned} 5x &= 30 \\ 5x \div 5 &= 30 \div 5 \\ x &= 6 \end{aligned}$$

6

$$\begin{aligned} 15x &= -5 \\ 15x \div 15 &= -5 \div 15 \\ x &= -\frac{1}{3} \end{aligned}$$

7

$$\begin{aligned} -10x &= -60 \\ -10x \div (-10) &= -60 \div (-10) \\ x &= 6 \end{aligned}$$

8

$$\begin{aligned} 6x &= -8 \\ 6x \div 6 &= -8 \div 6 \\ x &= -\frac{4}{3} \end{aligned}$$

$$\textcircled{1}$$

$$6x = -54$$

$$\textcircled{2}$$

$$-\frac{3}{2}x = -\frac{9}{8}$$

$$\textcircled{3}$$

$$-\frac{5}{3}x = \frac{5}{9}$$

$$\textcircled{4}$$

$$3x = -3$$

$$\textcircled{5}$$

$$-\frac{3}{2}x = \frac{15}{2}$$

$$\textcircled{6}$$

$$11x = \frac{11}{2}$$

$$\textcircled{7}$$

$$-14x = -98$$

$$\textcircled{8}$$

$$-\frac{5}{2}x = \frac{10}{3}$$

1

$$\begin{aligned}6x &= -54 \\6x \div 6 &= -54 \div 6 \\x &= -9\end{aligned}$$

2

$$\begin{aligned}-\frac{3}{2}x &= -\frac{9}{8} \\-\frac{3}{2}x \div \left(-\frac{3}{2}\right) &= -\frac{9}{8} \div \left(-\frac{3}{2}\right) \\x &= \frac{3}{4}\end{aligned}$$

3

$$\begin{aligned}-\frac{5}{3}x &= \frac{5}{9} \\-\frac{5}{3}x \div \left(-\frac{5}{3}\right) &= \frac{5}{9} \div \left(-\frac{5}{3}\right) \\x &= -\frac{1}{3}\end{aligned}$$

4

$$\begin{aligned}3x &= -3 \\3x \div 3 &= -3 \div 3 \\x &= -1\end{aligned}$$

5

$$\begin{aligned}-\frac{3}{2}x &= \frac{15}{2} \\-\frac{3}{2}x \div \left(-\frac{3}{2}\right) &= \frac{15}{2} \div \left(-\frac{3}{2}\right) \\x &= -5\end{aligned}$$

6

$$\begin{aligned}11x &= \frac{11}{2} \\11x \div 11 &= \frac{11}{2} \div 11 \\x &= \frac{1}{2}\end{aligned}$$

7

$$\begin{aligned}-14x &= -98 \\-14x \div (-14) &= -98 \div (-14) \\x &= 7\end{aligned}$$

8

$$\begin{aligned}-\frac{5}{2}x &= \frac{10}{3} \\-\frac{5}{2}x \div \left(-\frac{5}{2}\right) &= \frac{10}{3} \div \left(-\frac{5}{2}\right) \\x &= -\frac{4}{3}\end{aligned}$$

①

$$-\frac{3}{2}x = -2$$

②

$$\frac{5}{2}x = \frac{1}{2}$$

③

$$13x = -91$$

④

$$\frac{2}{3}x = -\frac{8}{3}$$

⑤

$$\frac{3}{2}x = 2$$

⑥

$$4x = -32$$

⑦

$$-\frac{5}{2}x = \frac{45}{2}$$

⑧

$$6x = 18$$

1

$$-\frac{3}{2}x = -2$$

$$-\frac{3}{2}x \div \left(-\frac{3}{2}\right) = -2 \div \left(-\frac{3}{2}\right)$$

$$x = \frac{4}{3}$$

2

$$\frac{5}{2}x = \frac{1}{2}$$

$$\frac{5}{2}x \div \frac{5}{2} = \frac{1}{2} \div \frac{5}{2}$$

$$x = \frac{1}{5}$$

3

$$13x = -91$$

$$13x \div 13 = -91 \div 13$$

$$x = -7$$

4

$$\frac{2}{3}x = -\frac{8}{3}$$

$$\frac{2}{3}x \div \frac{2}{3} = -\frac{8}{3} \div \frac{2}{3}$$

$$x = -4$$

5

$$\frac{3}{2}x = 2$$

$$\frac{3}{2}x \div \frac{3}{2} = 2 \div \frac{3}{2}$$

$$x = \frac{4}{3}$$

6

$$4x = -32$$

$$4x \div 4 = -32 \div 4$$

$$x = -8$$

7

$$-\frac{5}{2}x = \frac{45}{2}$$

$$-\frac{5}{2}x \div \left(-\frac{5}{2}\right) = \frac{45}{2} \div \left(-\frac{5}{2}\right)$$

$$x = -9$$

8

$$6x = 18$$

$$6x \div 6 = 18 \div 6$$

$$x = 3$$

$$\textcircled{1}$$

$$6x = -3$$

$$\textcircled{2}$$

$$2x = -6$$

$$\textcircled{3}$$

$$\frac{3}{2}x = -\frac{3}{10}$$

$$\textcircled{4}$$

$$10x = -80$$

$$\textcircled{5}$$

$$\frac{1}{3}x = 2$$

$$\textcircled{6}$$

$$-\frac{1}{3}x = -\frac{2}{9}$$

$$\textcircled{7}$$

$$-\frac{2}{3}x = -\frac{1}{2}$$

$$\textcircled{8}$$

$$-\frac{4}{3}x = 8$$

1

$$\begin{aligned}
 6x &= -3 \\
 6x \div 6 &= -3 \div 6 \\
 x &= -\frac{1}{2}
 \end{aligned}$$

2

$$\begin{aligned}
 2x &= -6 \\
 2x \div 2 &= -6 \div 2 \\
 x &= -3
 \end{aligned}$$

3

$$\begin{aligned}
 \frac{3}{2}x &= -\frac{3}{10} \\
 \frac{3}{2}x \div \frac{3}{2} &= -\frac{3}{10} \div \frac{3}{2} \\
 x &= -\frac{1}{5}
 \end{aligned}$$

4

$$\begin{aligned}
 10x &= -80 \\
 10x \div 10 &= -80 \div 10 \\
 x &= -8
 \end{aligned}$$

5

$$\begin{aligned}
 \frac{1}{3}x &= 2 \\
 \frac{1}{3}x \div \frac{1}{3} &= 2 \div \frac{1}{3} \\
 x &= 6
 \end{aligned}$$

6

$$\begin{aligned}
 -\frac{1}{3}x &= -\frac{2}{9} \\
 -\frac{1}{3}x \div \left(-\frac{1}{3}\right) &= -\frac{2}{9} \div \left(-\frac{1}{3}\right) \\
 x &= \frac{2}{3}
 \end{aligned}$$

7

$$\begin{aligned}
 -\frac{2}{3}x &= -\frac{1}{2} \\
 -\frac{2}{3}x \div \left(-\frac{2}{3}\right) &= -\frac{1}{2} \div \left(-\frac{2}{3}\right) \\
 x &= \frac{3}{4}
 \end{aligned}$$

8

$$\begin{aligned}
 -\frac{4}{3}x &= 8 \\
 -\frac{4}{3}x \div \left(-\frac{4}{3}\right) &= 8 \div \left(-\frac{4}{3}\right) \\
 x &= -6
 \end{aligned}$$

問題

次の方程式を解きましょう。

1

$$-2x - 13 = 4x - 7$$

2

$$3x + 2 = 8x - 43$$

3

$$-10x - 3 = 3x + 75$$

4

$$4x - 6 = -6x - 76$$

5

$$11x - 6 = 7x - 42$$

6

$$-5x + 10 = -2x + 34$$

7

$$-5x - 6 = 8x + 46$$

8

$$3x + 6 = 6x + 12$$

1

$$\begin{aligned}
 -2x - 13 &= 4x - 7 \\
 -2x - 4x &= -7 + 13 \\
 -6x &= 6 \\
 -6x \div (-6) &= 6 \div (-6) \\
 x &= -1
 \end{aligned}$$

2

$$\begin{aligned}
 3x + 2 &= 8x - 43 \\
 3x - 8x &= -43 - 2 \\
 -5x &= -45 \\
 -5x \div (-5) &= -45 \div (-5) \\
 x &= 9
 \end{aligned}$$

3

$$\begin{aligned}
 -10x - 3 &= 3x + 75 \\
 -10x - 3x &= 75 + 3 \\
 -13x &= 78 \\
 -13x \div (-13) &= 78 \div (-13) \\
 x &= -6
 \end{aligned}$$

4

$$\begin{aligned}
 4x - 6 &= -6x - 76 \\
 4x + 6x &= -76 + 6 \\
 10x &= -70 \\
 10x \div 10 &= -70 \div 10 \\
 x &= -7
 \end{aligned}$$

5

$$\begin{aligned}
 11x - 6 &= 7x - 42 \\
 11x - 7x &= -42 + 6 \\
 4x &= -36 \\
 4x \div 4 &= -36 \div 4 \\
 x &= -9
 \end{aligned}$$

6

$$\begin{aligned}
 -5x + 10 &= -2x + 34 \\
 -5x + 2x &= 34 - 10 \\
 -3x &= 24 \\
 -3x \div (-3) &= 24 \div (-3) \\
 x &= -8
 \end{aligned}$$

7

$$\begin{aligned}
 -5x - 6 &= 8x + 46 \\
 -5x - 8x &= 46 + 6 \\
 -13x &= 52 \\
 -13x \div (-13) &= 52 \div (-13) \\
 x &= -4
 \end{aligned}$$

8

$$\begin{aligned}
 3x + 6 &= 6x + 12 \\
 3x - 6x &= 12 - 6 \\
 -3x &= 6 \\
 -3x \div (-3) &= 6 \div (-3) \\
 x &= -2
 \end{aligned}$$

1

$$15x - 4 = 6x + 50$$

2

$$-3x + 12 = -9x - 36$$

3

$$14x - 4 = 6x + 68$$

4

$$-4x - 2 = 7x - 46$$

5

$$-11x + 4 = -7x + 12$$

6

$$-12x - 3 = -4x - 35$$

7

$$2x - 9 = 9x - 37$$

8

$$16x - 1 = 6x - 91$$

1

$$\begin{aligned}
 15x - 4 &= 6x + 50 \\
 15x - 6x &= 50 + 4 \\
 9x &= 54 \\
 9x \div 9 &= 54 \div 9 \\
 x &= 6
 \end{aligned}$$

2

$$\begin{aligned}
 -3x + 12 &= -9x - 36 \\
 -3x + 9x &= -36 - 12 \\
 6x &= -48 \\
 6x \div 6 &= -48 \div 6 \\
 x &= -8
 \end{aligned}$$

3

$$\begin{aligned}
 14x - 4 &= 6x + 68 \\
 14x - 6x &= 68 + 4 \\
 8x &= 72 \\
 8x \div 8 &= 72 \div 8 \\
 x &= 9
 \end{aligned}$$

4

$$\begin{aligned}
 -4x - 2 &= 7x - 46 \\
 -4x - 7x &= -46 + 2 \\
 -11x &= -44 \\
 -11x \div (-11) &= -44 \div (-11) \\
 x &= 4
 \end{aligned}$$

5

$$\begin{aligned}
 -11x + 4 &= -7x + 12 \\
 -11x + 7x &= 12 - 4 \\
 -4x &= 8 \\
 -4x \div (-4) &= 8 \div (-4) \\
 x &= -2
 \end{aligned}$$

6

$$\begin{aligned}
 -12x - 3 &= -4x - 35 \\
 -12x + 4x &= -35 + 3 \\
 -8x &= -32 \\
 -8x \div (-8) &= -32 \div (-8) \\
 x &= 4
 \end{aligned}$$

7

$$\begin{aligned}
 2x - 9 &= 9x - 37 \\
 2x - 9x &= -37 + 9 \\
 -7x &= -28 \\
 -7x \div (-7) &= -28 \div (-7) \\
 x &= 4
 \end{aligned}$$

8

$$\begin{aligned}
 16x - 1 &= 6x - 91 \\
 16x - 6x &= -91 + 1 \\
 10x &= -90 \\
 10x \div 10 &= -90 \div 10 \\
 x &= -9
 \end{aligned}$$

1

$$16x + 4 = 5x + 81$$

2

$$5x + 2 = -6x - 75$$

3

$$-2x - 2 = -4x + 8$$

4

$$11x + 11 = -4x + 116$$

5

$$-12x - 5 = -8x - 33$$

6

$$x - 9 = 4x$$

7

$$-18x + 3 = -5x - 101$$

8

$$4x - 2 = 6x + 2$$

1

$$\begin{aligned}
 16x + 4 &= 5x + 81 \\
 16x - 5x &= 81 - 4 \\
 11x &= 77 \\
 11x \div 11 &= 77 \div 11 \\
 x &= 7
 \end{aligned}$$

2

$$\begin{aligned}
 5x + 2 &= -6x - 75 \\
 5x + 6x &= -75 - 2 \\
 11x &= -77 \\
 11x \div 11 &= -77 \div 11 \\
 x &= -7
 \end{aligned}$$

3

$$\begin{aligned}
 -2x - 2 &= -4x + 8 \\
 -2x + 4x &= 8 + 2 \\
 2x &= 10 \\
 2x \div 2 &= 10 \div 2 \\
 x &= 5
 \end{aligned}$$

4

$$\begin{aligned}
 11x + 11 &= -4x + 116 \\
 11x + 4x &= 116 - 11 \\
 15x &= 105 \\
 15x \div 15 &= 105 \div 15 \\
 x &= 7
 \end{aligned}$$

5

$$\begin{aligned}
 -12x - 5 &= -8x - 33 \\
 -12x + 8x &= -33 + 5 \\
 -4x &= -28 \\
 -4x \div (-4) &= -28 \div (-4) \\
 x &= 7
 \end{aligned}$$

6

$$\begin{aligned}
 x - 9 &= 4x \\
 x - 4x &= 9 \\
 -3x &= 9 \\
 -3x \div (-3) &= 9 \div (-3) \\
 x &= -3
 \end{aligned}$$

7

$$\begin{aligned}
 -18x + 3 &= -5x - 101 \\
 -18x + 5x &= -101 - 3 \\
 -13x &= -104 \\
 -13x \div (-13) &= -104 \div (-13) \\
 x &= 8
 \end{aligned}$$

8

$$\begin{aligned}
 4x - 2 &= 6x + 2 \\
 4x - 6x &= 2 + 2 \\
 -2x &= 4 \\
 -2x \div (-2) &= 4 \div (-2) \\
 x &= -2
 \end{aligned}$$

①

$$6x - 9 = -9x + 21$$

②

$$-4x + 13 = 7x - 86$$

③

$$-21x - 12 = -6x - 87$$

④

$$-11x - 12 = -9x - 14$$

⑤

$$3x + 15 = -7x + 85$$

⑥

$$7x + 11 = 4x - 1$$

⑦

$$19x - 13 = 8x + 75$$

⑧

$$3x - 14 = -9x - 122$$

1

$$\begin{aligned}
 6x - 9 &= -9x + 21 \\
 6x + 9x &= 21 + 9 \\
 15x &= 30 \\
 15x \div 15 &= 30 \div 15 \\
 x &= 2
 \end{aligned}$$

2

$$\begin{aligned}
 -4x + 13 &= 7x - 86 \\
 -4x - 7x &= -86 - 13 \\
 -11x &= -99 \\
 -11x \div (-11) &= -99 \div (-11) \\
 x &= 9
 \end{aligned}$$

3

$$\begin{aligned}
 -21x - 12 &= -6x - 87 \\
 -21x + 6x &= -87 + 12 \\
 -15x &= -75 \\
 -15x \div (-15) &= -75 \div (-15) \\
 x &= 5
 \end{aligned}$$

4

$$\begin{aligned}
 -11x - 12 &= -9x - 14 \\
 -11x + 9x &= -14 + 12 \\
 -2x &= -2 \\
 -2x \div (-2) &= -2 \div (-2) \\
 x &= 1
 \end{aligned}$$

5

$$\begin{aligned}
 3x + 15 &= -7x + 85 \\
 3x + 7x &= 85 - 15 \\
 10x &= 70 \\
 10x \div 10 &= 70 \div 10 \\
 x &= 7
 \end{aligned}$$

6

$$\begin{aligned}
 7x + 11 &= 4x - 1 \\
 7x - 4x &= -1 - 11 \\
 3x &= -12 \\
 3x \div 3 &= -12 \div 3 \\
 x &= -4
 \end{aligned}$$

7

$$\begin{aligned}
 19x - 13 &= 8x + 75 \\
 19x - 8x &= 75 + 13 \\
 11x &= 88 \\
 11x \div 11 &= 88 \div 11 \\
 x &= 8
 \end{aligned}$$

8

$$\begin{aligned}
 3x - 14 &= -9x - 122 \\
 3x + 9x &= -122 + 14 \\
 12x &= -108 \\
 12x \div 12 &= -108 \div 12 \\
 x &= -9
 \end{aligned}$$

1

$$-5x + 8 = -4x + 9$$

2

$$-5x - 2 = 3x - 58$$

3

$$9x - 4 = -2x - 48$$

4

$$8x + 14 = 9x + 10$$

5

$$-12x + 3 = -7x - 27$$

6

$$-3x + 6 = 9x - 42$$

7

$$-x - 15 = 6x + 20$$

8

$$x + 3 = 7x + 21$$

1

$$\begin{aligned}
 -5x + 8 &= -4x + 9 \\
 -5x + 4x &= 9 - 8 \\
 -x &= 1 \\
 -x \div (-1) &= 1 \div (-1) \\
 x &= -1
 \end{aligned}$$

2

$$\begin{aligned}
 -5x - 2 &= 3x - 58 \\
 -5x - 3x &= -58 + 2 \\
 -8x &= -56 \\
 -8x \div (-8) &= -56 \div (-8) \\
 x &= 7
 \end{aligned}$$

3

$$\begin{aligned}
 9x - 4 &= -2x - 48 \\
 9x + 2x &= -48 + 4 \\
 11x &= -44 \\
 11x \div 11 &= -44 \div 11 \\
 x &= -4
 \end{aligned}$$

4

$$\begin{aligned}
 8x + 14 &= 9x + 10 \\
 8x - 9x &= 10 - 14 \\
 -x &= -4 \\
 -x \div (-1) &= -4 \div (-1) \\
 x &= 4
 \end{aligned}$$

5

$$\begin{aligned}
 -12x + 3 &= -7x - 27 \\
 -12x + 7x &= -27 - 3 \\
 -5x &= -30 \\
 -5x \div (-5) &= -30 \div (-5) \\
 x &= 6
 \end{aligned}$$

6

$$\begin{aligned}
 -3x + 6 &= 9x - 42 \\
 -3x - 9x &= -42 - 6 \\
 -12x &= -48 \\
 -12x \div (-12) &= -48 \div (-12) \\
 x &= 4
 \end{aligned}$$

7

$$\begin{aligned}
 -x - 15 &= 6x + 20 \\
 -x - 6x &= 20 + 15 \\
 -7x &= 35 \\
 -7x \div (-7) &= 35 \div (-7) \\
 x &= -5
 \end{aligned}$$

8

$$\begin{aligned}
 x + 3 &= 7x + 21 \\
 x - 7x &= 21 - 3 \\
 -6x &= 18 \\
 -6x \div (-6) &= 18 \div (-6) \\
 x &= -3
 \end{aligned}$$

1

$$15x + 8 = 9x + 20$$

2

$$-5x - 9 = 2x + 40$$

3

$$12x + 3 = 7x + 18$$

4

$$-7x - 13 = -4x - 16$$

5

$$2x - 12 = -7x + 6$$

6

$$-7 = 2x - 15$$

7

$$12x + 14 = 5x - 14$$

8

$$x - 1 = 8x + 20$$

1

$$\begin{aligned}
 15x + 8 &= 9x + 20 \\
 15x - 9x &= 20 - 8 \\
 6x &= 12 \\
 6x \div 6 &= 12 \div 6 \\
 x &= 2
 \end{aligned}$$

2

$$\begin{aligned}
 -5x - 9 &= 2x + 40 \\
 -5x - 2x &= 40 + 9 \\
 -7x &= 49 \\
 -7x \div (-7) &= 49 \div (-7) \\
 x &= -7
 \end{aligned}$$

3

$$\begin{aligned}
 12x + 3 &= 7x + 18 \\
 12x - 7x &= 18 - 3 \\
 5x &= 15 \\
 5x \div 5 &= 15 \div 5 \\
 x &= 3
 \end{aligned}$$

4

$$\begin{aligned}
 -7x - 13 &= -4x - 16 \\
 -7x + 4x &= -16 + 13 \\
 -3x &= -3 \\
 -3x \div (-3) &= -3 \div (-3) \\
 x &= 1
 \end{aligned}$$

5

$$\begin{aligned}
 2x - 12 &= -7x + 6 \\
 2x + 7x &= 6 + 12 \\
 9x &= 18 \\
 9x \div 9 &= 18 \div 9 \\
 x &= 2
 \end{aligned}$$

6

$$\begin{aligned}
 -7 &= 2x - 15 \\
 -2x &= -15 + 7 \\
 -2x &= -8 \\
 -2x \div (-2) &= -8 \div (-2) \\
 x &= 4
 \end{aligned}$$

7

$$\begin{aligned}
 12x + 14 &= 5x - 14 \\
 12x - 5x &= -14 - 14 \\
 7x &= -28 \\
 7x \div 7 &= -28 \div 7 \\
 x &= -4
 \end{aligned}$$

8

$$\begin{aligned}
 x - 1 &= 8x + 20 \\
 x - 8x &= 20 + 1 \\
 -7x &= 21 \\
 -7x \div (-7) &= 21 \div (-7) \\
 x &= -3
 \end{aligned}$$

1

$$-10x - 15 = -9x - 19$$

2

$$5x - 8 = -9x - 50$$

3

$$23x + 9 = 8x - 96$$

4

$$11x + 7 = 4x - 56$$

5

$$-4x - 6 = 7x - 28$$

6

$$-18x + 8 = -3x - 82$$

7

$$-x - 4 = -5x$$

8

$$5x - 15 = -7x - 111$$

1

$$-10x - 15 = -9x - 19$$

$$-10x + 9x = -19 + 15$$

$$-x = -4$$

$$-x \div (-1) = -4 \div (-1)$$

$$x = 4$$

2

$$5x - 8 = -9x - 50$$

$$5x + 9x = -50 + 8$$

$$14x = -42$$

$$14x \div 14 = -42 \div 14$$

$$x = -3$$

3

$$23x + 9 = 8x - 96$$

$$23x - 8x = -96 - 9$$

$$15x = -105$$

$$15x \div 15 = -105 \div 15$$

$$x = -7$$

4

$$11x + 7 = 4x - 56$$

$$11x - 4x = -56 - 7$$

$$7x = -63$$

$$7x \div 7 = -63 \div 7$$

$$x = -9$$

5

$$-4x - 6 = 7x - 28$$

$$-4x - 7x = -28 + 6$$

$$-11x = -22$$

$$-11x \div (-11) = -22 \div (-11)$$

$$x = 2$$

6

$$-18x + 8 = -3x - 82$$

$$-18x + 3x = -82 - 8$$

$$-15x = -90$$

$$-15x \div (-15) = -90 \div (-15)$$

$$x = 6$$

7

$$-x - 4 = -5x$$

$$-x + 5x = 4$$

$$4x = 4$$

$$4x \div 4 = 4 \div 4$$

$$x = 1$$

8

$$5x - 15 = -7x - 111$$

$$5x + 7x = -111 + 15$$

$$12x = -96$$

$$12x \div 12 = -96 \div 12$$

$$x = -8$$

①

$$x + 8 = 6x - 32$$

②

$$12x - 4 = 2x - 24$$

③

$$6x + 8 = 7x + 4$$

④

$$3x + 14 = -2x + 19$$

⑤

$$3x + 11 = 9x - 7$$

⑥

$$-6x - 14 = 7x - 66$$

⑦

$$2x - 13 = 5x - 31$$

⑧

$$-6x - 3 = -8x - 9$$

1

$$\begin{aligned}
 x + 8 &= 6x - 32 \\
 x - 6x &= -32 - 8 \\
 -5x &= -40 \\
 -5x \div (-5) &= -40 \div (-5) \\
 x &= 8
 \end{aligned}$$

2

$$\begin{aligned}
 12x - 4 &= 2x - 24 \\
 12x - 2x &= -24 + 4 \\
 10x &= -20 \\
 10x \div 10 &= -20 \div 10 \\
 x &= -2
 \end{aligned}$$

3

$$\begin{aligned}
 6x + 8 &= 7x + 4 \\
 6x - 7x &= 4 - 8 \\
 -x &= -4 \\
 -x \div (-1) &= -4 \div (-1) \\
 x &= 4
 \end{aligned}$$

4

$$\begin{aligned}
 3x + 14 &= -2x + 19 \\
 3x + 2x &= 19 - 14 \\
 5x &= 5 \\
 5x \div 5 &= 5 \div 5 \\
 x &= 1
 \end{aligned}$$

5

$$\begin{aligned}
 3x + 11 &= 9x - 7 \\
 3x - 9x &= -7 - 11 \\
 -6x &= -18 \\
 -6x \div (-6) &= -18 \div (-6) \\
 x &= 3
 \end{aligned}$$

6

$$\begin{aligned}
 -6x - 14 &= 7x - 66 \\
 -6x - 7x &= -66 + 14 \\
 -13x &= -52 \\
 -13x \div (-13) &= -52 \div (-13) \\
 x &= 4
 \end{aligned}$$

7

$$\begin{aligned}
 2x - 13 &= 5x - 31 \\
 2x - 5x &= -31 + 13 \\
 -3x &= -18 \\
 -3x \div (-3) &= -18 \div (-3) \\
 x &= 6
 \end{aligned}$$

8

$$\begin{aligned}
 -6x - 3 &= -8x - 9 \\
 -6x + 8x &= -9 + 3 \\
 2x &= -6 \\
 2x \div 2 &= -6 \div 2 \\
 x &= -3
 \end{aligned}$$

1

$$-7x - 11 = 3x - 31$$

2

$$-6x - 1 = 4x - 21$$

3

$$8x - 12 = -7x + 18$$

4

$$-10x - 10 = 5x + 35$$

5

$$17x + 10 = 2x + 85$$

6

$$-8x + 9 = -7x + 16$$

7

$$4x + 8 = -3x - 6$$

8

$$-x - 4 = 4x - 19$$

1

$$\begin{aligned}
 -7x - 11 &= 3x - 31 \\
 -7x - 3x &= -31 + 11 \\
 -10x &= -20 \\
 -10x \div (-10) &= -20 \div (-10) \\
 x &= 2
 \end{aligned}$$

2

$$\begin{aligned}
 -6x - 1 &= 4x - 21 \\
 -6x - 4x &= -21 + 1 \\
 -10x &= -20 \\
 -10x \div (-10) &= -20 \div (-10) \\
 x &= 2
 \end{aligned}$$

3

$$\begin{aligned}
 8x - 12 &= -7x + 18 \\
 8x + 7x &= 18 + 12 \\
 15x &= 30 \\
 15x \div 15 &= 30 \div 15 \\
 x &= 2
 \end{aligned}$$

4

$$\begin{aligned}
 -10x - 10 &= 5x + 35 \\
 -10x - 5x &= 35 + 10 \\
 -15x &= 45 \\
 -15x \div (-15) &= 45 \div (-15) \\
 x &= -3
 \end{aligned}$$

5

$$\begin{aligned}
 17x + 10 &= 2x + 85 \\
 17x - 2x &= 85 - 10 \\
 15x &= 75 \\
 15x \div 15 &= 75 \div 15 \\
 x &= 5
 \end{aligned}$$

6

$$\begin{aligned}
 -8x + 9 &= -7x + 16 \\
 -8x + 7x &= 16 - 9 \\
 -x &= 7 \\
 -x \div (-1) &= 7 \div (-1) \\
 x &= -7
 \end{aligned}$$

7

$$\begin{aligned}
 4x + 8 &= -3x - 6 \\
 4x + 3x &= -6 - 8 \\
 7x &= -14 \\
 7x \div 7 &= -14 \div 7 \\
 x &= -2
 \end{aligned}$$

8

$$\begin{aligned}
 -x - 4 &= 4x - 19 \\
 -x - 4x &= -19 + 4 \\
 -5x &= -15 \\
 -5x \div (-5) &= -15 \div (-5) \\
 x &= 3
 \end{aligned}$$

1

$$18x - 10 = 3x - 100$$

2

$$-16x - 6 = -7x + 12$$

3

$$5x + 6 = -x + 54$$

4

$$-x + 5 = 2x - 7$$

5

$$-12x + 13 = -4x - 59$$

6

$$6x + 12 = 4x + 2$$

7

$$-13x + 2 = -6x + 65$$

8

$$5x - 2 = -2x + 26$$

1

$$\begin{aligned}
 18x - 10 &= 3x - 100 \\
 18x - 3x &= -100 + 10 \\
 15x &= -90 \\
 15x \div 15 &= -90 \div 15 \\
 x &= -6
 \end{aligned}$$

2

$$\begin{aligned}
 -16x - 6 &= -7x + 12 \\
 -16x + 7x &= 12 + 6 \\
 -9x &= 18 \\
 -9x \div (-9) &= 18 \div (-9) \\
 x &= -2
 \end{aligned}$$

3

$$\begin{aligned}
 5x + 6 &= -x + 54 \\
 5x + x &= 54 - 6 \\
 6x &= 48 \\
 6x \div 6 &= 48 \div 6 \\
 x &= 8
 \end{aligned}$$

4

$$\begin{aligned}
 -x + 5 &= 2x - 7 \\
 -x - 2x &= -7 - 5 \\
 -3x &= -12 \\
 -3x \div (-3) &= -12 \div (-3) \\
 x &= 4
 \end{aligned}$$

5

$$\begin{aligned}
 -12x + 13 &= -4x - 59 \\
 -12x + 4x &= -59 - 13 \\
 -8x &= -72 \\
 -8x \div (-8) &= -72 \div (-8) \\
 x &= 9
 \end{aligned}$$

6

$$\begin{aligned}
 6x + 12 &= 4x + 2 \\
 6x - 4x &= 2 - 12 \\
 2x &= -10 \\
 2x \div 2 &= -10 \div 2 \\
 x &= -5
 \end{aligned}$$

7

$$\begin{aligned}
 -13x + 2 &= -6x + 65 \\
 -13x + 6x &= 65 - 2 \\
 -7x &= 63 \\
 -7x \div (-7) &= 63 \div (-7) \\
 x &= -9
 \end{aligned}$$

8

$$\begin{aligned}
 5x - 2 &= -2x + 26 \\
 5x + 2x &= 26 + 2 \\
 7x &= 28 \\
 7x \div 7 &= 28 \div 7 \\
 x &= 4
 \end{aligned}$$

$$\textcircled{1}$$

$$2x + 6 = 6x - 26$$

$$\textcircled{2}$$

$$4x + 12 = 2x + 26$$

$$\textcircled{3}$$

$$-16x + 6 = -4x - 102$$

$$\textcircled{4}$$

$$3x - 1 = x - 11$$

$$\textcircled{5}$$

$$21x - 8 = 7x - 64$$

$$\textcircled{6}$$

$$16x + 3 = x + 138$$

$$\textcircled{7}$$

$$16x + 4 = 7x - 32$$

$$\textcircled{8}$$

$$8x - 15 = 3x - 35$$

1

$$\begin{aligned}
 2x + 6 &= 6x - 26 \\
 2x - 6x &= -26 - 6 \\
 -4x &= -32 \\
 -4x \div (-4) &= -32 \div (-4) \\
 x &= 8
 \end{aligned}$$

2

$$\begin{aligned}
 4x + 12 &= 2x + 26 \\
 4x - 2x &= 26 - 12 \\
 2x &= 14 \\
 2x \div 2 &= 14 \div 2 \\
 x &= 7
 \end{aligned}$$

3

$$\begin{aligned}
 -16x + 6 &= -4x - 102 \\
 -16x + 4x &= -102 - 6 \\
 -12x &= -108 \\
 -12x \div (-12) &= -108 \div (-12) \\
 x &= 9
 \end{aligned}$$

4

$$\begin{aligned}
 3x - 1 &= x - 11 \\
 3x - x &= -11 + 1 \\
 2x &= -10 \\
 2x \div 2 &= -10 \div 2 \\
 x &= -5
 \end{aligned}$$

5

$$\begin{aligned}
 21x - 8 &= 7x - 64 \\
 21x - 7x &= -64 + 8 \\
 14x &= -56 \\
 14x \div 14 &= -56 \div 14 \\
 x &= -4
 \end{aligned}$$

6

$$\begin{aligned}
 16x + 3 &= x + 138 \\
 16x - x &= 138 - 3 \\
 15x &= 135 \\
 15x \div 15 &= 135 \div 15 \\
 x &= 9
 \end{aligned}$$

7

$$\begin{aligned}
 16x + 4 &= 7x - 32 \\
 16x - 7x &= -32 - 4 \\
 9x &= -36 \\
 9x \div 9 &= -36 \div 9 \\
 x &= -4
 \end{aligned}$$

8

$$\begin{aligned}
 8x - 15 &= 3x - 35 \\
 8x - 3x &= -35 + 15 \\
 5x &= -20 \\
 5x \div 5 &= -20 \div 5 \\
 x &= -4
 \end{aligned}$$

1

$$10x + 3 = 6x + 31$$

2

$$18x - 8 = 5x - 60$$

3

$$-4x + 14 = 6x - 46$$

4

$$18x - 15 = 5x + 37$$

5

$$11x - 5 = 7x + 3$$

6

$$8x - 7 = 3x + 38$$

7

$$3x - 1 = 9x + 29$$

8

$$-11x - 14 = -4x - 21$$

1

$$\begin{aligned}
 10x + 3 &= 6x + 31 \\
 10x - 6x &= 31 - 3 \\
 4x &= 28 \\
 4x \div 4 &= 28 \div 4 \\
 x &= 7
 \end{aligned}$$

2

$$\begin{aligned}
 18x - 8 &= 5x - 60 \\
 18x - 5x &= -60 + 8 \\
 13x &= -52 \\
 13x \div 13 &= -52 \div 13 \\
 x &= -4
 \end{aligned}$$

3

$$\begin{aligned}
 -4x + 14 &= 6x - 46 \\
 -4x - 6x &= -46 - 14 \\
 -10x &= -60 \\
 -10x \div (-10) &= -60 \div (-10) \\
 x &= 6
 \end{aligned}$$

4

$$\begin{aligned}
 18x - 15 &= 5x + 37 \\
 18x - 5x &= 37 + 15 \\
 13x &= 52 \\
 13x \div 13 &= 52 \div 13 \\
 x &= 4
 \end{aligned}$$

5

$$\begin{aligned}
 11x - 5 &= 7x + 3 \\
 11x - 7x &= 3 + 5 \\
 4x &= 8 \\
 4x \div 4 &= 8 \div 4 \\
 x &= 2
 \end{aligned}$$

6

$$\begin{aligned}
 8x - 7 &= 3x + 38 \\
 8x - 3x &= 38 + 7 \\
 5x &= 45 \\
 5x \div 5 &= 45 \div 5 \\
 x &= 9
 \end{aligned}$$

7

$$\begin{aligned}
 3x - 1 &= 9x + 29 \\
 3x - 9x &= 29 + 1 \\
 -6x &= 30 \\
 -6x \div (-6) &= 30 \div (-6) \\
 x &= -5
 \end{aligned}$$

8

$$\begin{aligned}
 -11x - 14 &= -4x - 21 \\
 -11x + 4x &= -21 + 14 \\
 -7x &= -7 \\
 -7x \div (-7) &= -7 \div (-7) \\
 x &= 1
 \end{aligned}$$

1

$$x + 11 = 7x - 13$$

2

$$-2x + 4 = 6x - 28$$

3

$$17x + 10 = 9x + 82$$

4

$$-x - 13 = -4x - 34$$

5

$$-7x + 8 = 7x + 106$$

6

$$-7x + 3 = 2x - 33$$

7

$$-11x - 11 = -6x + 19$$

8

$$8x + 10 = 9x + 14$$

1

$$\begin{aligned}
 x + 11 &= 7x - 13 \\
 x - 7x &= -13 - 11 \\
 -6x &= -24 \\
 -6x \div (-6) &= -24 \div (-6) \\
 x &= 4
 \end{aligned}$$

2

$$\begin{aligned}
 -2x + 4 &= 6x - 28 \\
 -2x - 6x &= -28 - 4 \\
 -8x &= -32 \\
 -8x \div (-8) &= -32 \div (-8) \\
 x &= 4
 \end{aligned}$$

3

$$\begin{aligned}
 17x + 10 &= 9x + 82 \\
 17x - 9x &= 82 - 10 \\
 8x &= 72 \\
 8x \div 8 &= 72 \div 8 \\
 x &= 9
 \end{aligned}$$

4

$$\begin{aligned}
 -x - 13 &= -4x - 34 \\
 -x + 4x &= -34 + 13 \\
 3x &= -21 \\
 3x \div 3 &= -21 \div 3 \\
 x &= -7
 \end{aligned}$$

5

$$\begin{aligned}
 -7x + 8 &= 7x + 106 \\
 -7x - 7x &= 106 - 8 \\
 -14x &= 98 \\
 -14x \div (-14) &= 98 \div (-14) \\
 x &= -7
 \end{aligned}$$

6

$$\begin{aligned}
 -7x + 3 &= 2x - 33 \\
 -7x - 2x &= -33 - 3 \\
 -9x &= -36 \\
 -9x \div (-9) &= -36 \div (-9) \\
 x &= 4
 \end{aligned}$$

7

$$\begin{aligned}
 -11x - 11 &= -6x + 19 \\
 -11x + 6x &= 19 + 11 \\
 -5x &= 30 \\
 -5x \div (-5) &= 30 \div (-5) \\
 x &= -6
 \end{aligned}$$

8

$$\begin{aligned}
 8x + 10 &= 9x + 14 \\
 8x - 9x &= 14 - 10 \\
 -x &= 4 \\
 -x \div (-1) &= 4 \div (-1) \\
 x &= -4
 \end{aligned}$$

1

$$-21x + 4 = -8x + 56$$

2

$$2x - 3 = -5x - 45$$

3

$$-11x - 5 = 3x - 117$$

4

$$6x - 7 = 2x - 3$$

5

$$3 = -6x - 51$$

6

$$3x + 10 = -6x + 73$$

7

$$17x + 6 = 2x - 9$$

8

$$-12x + 8 = -8x + 44$$

1

$$\begin{aligned}
 -21x + 4 &= -8x + 56 \\
 -21x + 8x &= 56 - 4 \\
 -13x &= 52 \\
 -13x \div (-13) &= 52 \div (-13) \\
 x &= -4
 \end{aligned}$$

2

$$\begin{aligned}
 2x - 3 &= -5x - 45 \\
 2x + 5x &= -45 + 3 \\
 7x &= -42 \\
 7x \div 7 &= -42 \div 7 \\
 x &= -6
 \end{aligned}$$

3

$$\begin{aligned}
 -11x - 5 &= 3x - 117 \\
 -11x - 3x &= -117 + 5 \\
 -14x &= -112 \\
 -14x \div (-14) &= -112 \div (-14) \\
 x &= 8
 \end{aligned}$$

4

$$\begin{aligned}
 6x - 7 &= 2x - 3 \\
 6x - 2x &= -3 + 7 \\
 4x &= 4 \\
 4x \div 4 &= 4 \div 4 \\
 x &= 1
 \end{aligned}$$

5

$$\begin{aligned}
 3 &= -6x - 51 \\
 6x &= -51 - 3 \\
 6x &= -54 \\
 6x \div 6 &= -54 \div 6 \\
 x &= -9
 \end{aligned}$$

6

$$\begin{aligned}
 3x + 10 &= -6x + 73 \\
 3x + 6x &= 73 - 10 \\
 9x &= 63 \\
 9x \div 9 &= 63 \div 9 \\
 x &= 7
 \end{aligned}$$

7

$$\begin{aligned}
 17x + 6 &= 2x - 9 \\
 17x - 2x &= -9 - 6 \\
 15x &= -15 \\
 15x \div 15 &= -15 \div 15 \\
 x &= -1
 \end{aligned}$$

8

$$\begin{aligned}
 -12x + 8 &= -8x + 44 \\
 -12x + 8x &= 44 - 8 \\
 -4x &= 36 \\
 -4x \div (-4) &= 36 \div (-4) \\
 x &= -9
 \end{aligned}$$

1

$$-10x - 14 = 3x + 38$$

2

$$-x + 9 = -4x + 21$$

3

$$4x + 5 = -2x - 19$$

4

$$-7x + 8 = -3x - 24$$

5

$$-6x + 7 = 3x - 2$$

6

$$5x + 4 = -9x - 80$$

7

$$x - 10 = 7x - 40$$

8

$$10x - 3 = 4x + 9$$

1

$$\begin{aligned}
 -10x - 14 &= 3x + 38 \\
 -10x - 3x &= 38 + 14 \\
 -13x &= 52 \\
 -13x \div (-13) &= 52 \div (-13) \\
 x &= -4
 \end{aligned}$$

2

$$\begin{aligned}
 -x + 9 &= -4x + 21 \\
 -x + 4x &= 21 - 9 \\
 3x &= 12 \\
 3x \div 3 &= 12 \div 3 \\
 x &= 4
 \end{aligned}$$

3

$$\begin{aligned}
 4x + 5 &= -2x - 19 \\
 4x + 2x &= -19 - 5 \\
 6x &= -24 \\
 6x \div 6 &= -24 \div 6 \\
 x &= -4
 \end{aligned}$$

4

$$\begin{aligned}
 -7x + 8 &= -3x - 24 \\
 -7x + 3x &= -24 - 8 \\
 -4x &= -32 \\
 -4x \div (-4) &= -32 \div (-4) \\
 x &= 8
 \end{aligned}$$

5

$$\begin{aligned}
 -6x + 7 &= 3x - 2 \\
 -6x - 3x &= -2 - 7 \\
 -9x &= -9 \\
 -9x \div (-9) &= -9 \div (-9) \\
 x &= 1
 \end{aligned}$$

6

$$\begin{aligned}
 5x + 4 &= -9x - 80 \\
 5x + 9x &= -80 - 4 \\
 14x &= -84 \\
 14x \div 14 &= -84 \div 14 \\
 x &= -6
 \end{aligned}$$

7

$$\begin{aligned}
 x - 10 &= 7x - 40 \\
 x - 7x &= -40 + 10 \\
 -6x &= -30 \\
 -6x \div (-6) &= -30 \div (-6) \\
 x &= 5
 \end{aligned}$$

8

$$\begin{aligned}
 10x - 3 &= 4x + 9 \\
 10x - 4x &= 9 + 3 \\
 6x &= 12 \\
 6x \div 6 &= 12 \div 6 \\
 x &= 2
 \end{aligned}$$

1

$$-4x + 5 = 9x + 31$$

2

$$4x + 9 = -8x - 51$$

3

$$-4x + 10 = -3x + 7$$

4

$$9x - 8 = 3x + 40$$

5

$$-16x + 9 = -3x + 113$$

6

$$4x + 5 = 2x - 1$$

7

$$-8x + 12 = -3x - 28$$

8

$$-9x - 10 = -6x - 25$$

1

$$\begin{aligned}
 -4x + 5 &= 9x + 31 \\
 -4x - 9x &= 31 - 5 \\
 -13x &= 26 \\
 -13x \div (-13) &= 26 \div (-13) \\
 x &= -2
 \end{aligned}$$

2

$$\begin{aligned}
 4x + 9 &= -8x - 51 \\
 4x + 8x &= -51 - 9 \\
 12x &= -60 \\
 12x \div 12 &= -60 \div 12 \\
 x &= -5
 \end{aligned}$$

3

$$\begin{aligned}
 -4x + 10 &= -3x + 7 \\
 -4x + 3x &= 7 - 10 \\
 -x &= -3 \\
 -x \div (-1) &= -3 \div (-1) \\
 x &= 3
 \end{aligned}$$

4

$$\begin{aligned}
 9x - 8 &= 3x + 40 \\
 9x - 3x &= 40 + 8 \\
 6x &= 48 \\
 6x \div 6 &= 48 \div 6 \\
 x &= 8
 \end{aligned}$$

5

$$\begin{aligned}
 -16x + 9 &= -3x + 113 \\
 -16x + 3x &= 113 - 9 \\
 -13x &= 104 \\
 -13x \div (-13) &= 104 \div (-13) \\
 x &= -8
 \end{aligned}$$

6

$$\begin{aligned}
 4x + 5 &= 2x - 1 \\
 4x - 2x &= -1 - 5 \\
 2x &= -6 \\
 2x \div 2 &= -6 \div 2 \\
 x &= -3
 \end{aligned}$$

7

$$\begin{aligned}
 -8x + 12 &= -3x - 28 \\
 -8x + 3x &= -28 - 12 \\
 -5x &= -40 \\
 -5x \div (-5) &= -40 \div (-5) \\
 x &= 8
 \end{aligned}$$

8

$$\begin{aligned}
 -9x - 10 &= -6x - 25 \\
 -9x + 6x &= -25 + 10 \\
 -3x &= -15 \\
 -3x \div (-3) &= -15 \div (-3) \\
 x &= 5
 \end{aligned}$$

1

$$-4x - 2 = -x - 5$$

2

$$-8x - 12 = 4x - 24$$

3

$$16x - 5 = 9x + 9$$

4

$$-13x - 7 = -6x - 63$$

5

$$-20x + 9 = -8x - 3$$

6

$$-6x - 10 = 5x - 76$$

7

$$-4x + 15 = 8x + 3$$

8

$$-16x + 11 = -9x + 25$$

1

$$\begin{aligned}
 -4x - 2 &= -x - 5 \\
 -4x + x &= -5 + 2 \\
 -3x &= -3 \\
 -3x \div (-3) &= -3 \div (-3) \\
 x &= 1
 \end{aligned}$$

2

$$\begin{aligned}
 -8x - 12 &= 4x - 24 \\
 -8x - 4x &= -24 + 12 \\
 -12x &= -12 \\
 -12x \div (-12) &= -12 \div (-12) \\
 x &= 1
 \end{aligned}$$

3

$$\begin{aligned}
 16x - 5 &= 9x + 9 \\
 16x - 9x &= 9 + 5 \\
 7x &= 14 \\
 7x \div 7 &= 14 \div 7 \\
 x &= 2
 \end{aligned}$$

4

$$\begin{aligned}
 -13x - 7 &= -6x - 63 \\
 -13x + 6x &= -63 + 7 \\
 -7x &= -56 \\
 -7x \div (-7) &= -56 \div (-7) \\
 x &= 8
 \end{aligned}$$

5

$$\begin{aligned}
 -20x + 9 &= -8x - 3 \\
 -20x + 8x &= -3 - 9 \\
 -12x &= -12 \\
 -12x \div (-12) &= -12 \div (-12) \\
 x &= 1
 \end{aligned}$$

6

$$\begin{aligned}
 -6x - 10 &= 5x - 76 \\
 -6x - 5x &= -76 + 10 \\
 -11x &= -66 \\
 -11x \div (-11) &= -66 \div (-11) \\
 x &= 6
 \end{aligned}$$

7

$$\begin{aligned}
 -4x + 15 &= 8x + 3 \\
 -4x - 8x &= 3 - 15 \\
 -12x &= -12 \\
 -12x \div (-12) &= -12 \div (-12) \\
 x &= 1
 \end{aligned}$$

8

$$\begin{aligned}
 -16x + 11 &= -9x + 25 \\
 -16x + 9x &= 25 - 11 \\
 -7x &= 14 \\
 -7x \div (-7) &= 14 \div (-7) \\
 x &= -2
 \end{aligned}$$

1

$$-7x - 5 = -9x - 7$$

2

$$2x + 11 = 9x + 53$$

3

$$17x + 2 = 4x + 15$$

4

$$10x - 2 = 5x + 28$$

5

$$2x + 4 = -x + 28$$

6

$$5 = -5x + 40$$

7

$$2x + 8 = -3x - 7$$

8

$$8x - 8 = 6x - 4$$

1

$$\begin{aligned}-7x - 5 &= -9x - 7 \\ -7x + 9x &= -7 + 5 \\ 2x &= -2 \\ 2x \div 2 &= -2 \div 2 \\ x &= -1\end{aligned}$$

2

$$\begin{aligned}2x + 11 &= 9x + 53 \\ 2x - 9x &= 53 - 11 \\ -7x &= 42 \\ -7x \div (-7) &= 42 \div (-7) \\ x &= -6\end{aligned}$$

3

$$\begin{aligned}17x + 2 &= 4x + 15 \\ 17x - 4x &= 15 - 2 \\ 13x &= 13 \\ 13x \div 13 &= 13 \div 13 \\ x &= 1\end{aligned}$$

4

$$\begin{aligned}10x - 2 &= 5x + 28 \\ 10x - 5x &= 28 + 2 \\ 5x &= 30 \\ 5x \div 5 &= 30 \div 5 \\ x &= 6\end{aligned}$$

5

$$\begin{aligned}2x + 4 &= -x + 28 \\ 2x + x &= 28 - 4 \\ 3x &= 24 \\ 3x \div 3 &= 24 \div 3 \\ x &= 8\end{aligned}$$

6

$$\begin{aligned}5 &= -5x + 40 \\ 5x &= 40 - 5 \\ 5x &= 35 \\ 5x \div 5 &= 35 \div 5 \\ x &= 7\end{aligned}$$

7

$$\begin{aligned}2x + 8 &= -3x - 7 \\ 2x + 3x &= -7 - 8 \\ 5x &= -15 \\ 5x \div 5 &= -15 \div 5 \\ x &= -3\end{aligned}$$

8

$$\begin{aligned}8x - 8 &= 6x - 4 \\ 8x - 6x &= -4 + 8 \\ 2x &= 4 \\ 2x \div 2 &= 4 \div 2 \\ x &= 2\end{aligned}$$

1

$$-16x + 12 = -8x - 60$$

2

$$17x - 4 = 9x + 12$$

3

$$-16x + 14 = -6x + 54$$

4

$$-6x + 12 = -4x + 28$$

5

$$12x + 13 = -3x + 133$$

6

$$-9x + 13 = -5x + 29$$

7

$$12x - 6 = 7x - 16$$

8

$$22x + 6 = 8x - 64$$

1

$$\begin{aligned}
 -16x + 12 &= -8x - 60 \\
 -16x + 8x &= -60 - 12 \\
 -8x &= -72 \\
 -8x \div (-8) &= -72 \div (-8) \\
 x &= 9
 \end{aligned}$$

2

$$\begin{aligned}
 17x - 4 &= 9x + 12 \\
 17x - 9x &= 12 + 4 \\
 8x &= 16 \\
 8x \div 8 &= 16 \div 8 \\
 x &= 2
 \end{aligned}$$

3

$$\begin{aligned}
 -16x + 14 &= -6x + 54 \\
 -16x + 6x &= 54 - 14 \\
 -10x &= 40 \\
 -10x \div (-10) &= 40 \div (-10) \\
 x &= -4
 \end{aligned}$$

4

$$\begin{aligned}
 -6x + 12 &= -4x + 28 \\
 -6x + 4x &= 28 - 12 \\
 -2x &= 16 \\
 -2x \div (-2) &= 16 \div (-2) \\
 x &= -8
 \end{aligned}$$

5

$$\begin{aligned}
 12x + 13 &= -3x + 133 \\
 12x + 3x &= 133 - 13 \\
 15x &= 120 \\
 15x \div 15 &= 120 \div 15 \\
 x &= 8
 \end{aligned}$$

6

$$\begin{aligned}
 -9x + 13 &= -5x + 29 \\
 -9x + 5x &= 29 - 13 \\
 -4x &= 16 \\
 -4x \div (-4) &= 16 \div (-4) \\
 x &= -4
 \end{aligned}$$

7

$$\begin{aligned}
 12x - 6 &= 7x - 16 \\
 12x - 7x &= -16 + 6 \\
 5x &= -10 \\
 5x \div 5 &= -10 \div 5 \\
 x &= -2
 \end{aligned}$$

8

$$\begin{aligned}
 22x + 6 &= 8x - 64 \\
 22x - 8x &= -64 - 6 \\
 14x &= -70 \\
 14x \div 14 &= -70 \div 14 \\
 x &= -5
 \end{aligned}$$

1

$$-16x - 12 = -2x + 72$$

2

$$-24x + 12 = -9x + 72$$

3

$$11x + 4 = -4x + 64$$

4

$$4x - 6 = 2x + 4$$

5

$$-5x + 3 = 6x - 52$$

6

$$15x + 11 = 7x - 61$$

7

$$18x + 6 = 3x - 99$$

8

$$10x + 12 = -3x + 51$$

1

$$-16x - 12 = -2x + 72$$

$$-16x + 2x = 72 + 12$$

$$-14x = 84$$

$$-14x \div (-14) = 84 \div (-14)$$

$$x = -6$$

2

$$-24x + 12 = -9x + 72$$

$$-24x + 9x = 72 - 12$$

$$-15x = 60$$

$$-15x \div (-15) = 60 \div (-15)$$

$$x = -4$$

3

$$11x + 4 = -4x + 64$$

$$11x + 4x = 64 - 4$$

$$15x = 60$$

$$15x \div 15 = 60 \div 15$$

$$x = 4$$

4

$$4x - 6 = 2x + 4$$

$$4x - 2x = 4 + 6$$

$$2x = 10$$

$$2x \div 2 = 10 \div 2$$

$$x = 5$$

5

$$-5x + 3 = 6x - 52$$

$$-5x - 6x = -52 - 3$$

$$-11x = -55$$

$$-11x \div (-11) = -55 \div (-11)$$

$$x = 5$$

6

$$15x + 11 = 7x - 61$$

$$15x - 7x = -61 - 11$$

$$8x = -72$$

$$8x \div 8 = -72 \div 8$$

$$x = -9$$

7

$$18x + 6 = 3x - 99$$

$$18x - 3x = -99 - 6$$

$$15x = -105$$

$$15x \div 15 = -105 \div 15$$

$$x = -7$$

8

$$10x + 12 = -3x + 51$$

$$10x + 3x = 51 - 12$$

$$13x = 39$$

$$13x \div 13 = 39 \div 13$$

$$x = 3$$

1

$$-x + 8 = -8x + 22$$

2

$$-7x - 11 = -3x + 17$$

3

$$-3 = -9x + 24$$

4

$$-17x + 2 = -7x - 18$$

5

$$16x + 13 = x - 32$$

6

$$-17x - 14 = -5x - 110$$

7

$$-11x + 11 = 3x + 39$$

8

$$-10x + 2 = -7x - 22$$

1

$$\begin{aligned}
 -x + 8 &= -8x + 22 \\
 -x + 8x &= 22 - 8 \\
 7x &= 14 \\
 7x \div 7 &= 14 \div 7 \\
 x &= 2
 \end{aligned}$$

2

$$\begin{aligned}
 -7x - 11 &= -3x + 17 \\
 -7x + 3x &= 17 + 11 \\
 -4x &= 28 \\
 -4x \div (-4) &= 28 \div (-4) \\
 x &= -7
 \end{aligned}$$

3

$$\begin{aligned}
 -3 &= -9x + 24 \\
 9x &= 24 + 3 \\
 9x &= 27 \\
 9x \div 9 &= 27 \div 9 \\
 x &= 3
 \end{aligned}$$

4

$$\begin{aligned}
 -17x + 2 &= -7x - 18 \\
 -17x + 7x &= -18 - 2 \\
 -10x &= -20 \\
 -10x \div (-10) &= -20 \div (-10) \\
 x &= 2
 \end{aligned}$$

5

$$\begin{aligned}
 16x + 13 &= x - 32 \\
 16x - x &= -32 - 13 \\
 15x &= -45 \\
 15x \div 15 &= -45 \div 15 \\
 x &= -3
 \end{aligned}$$

6

$$\begin{aligned}
 -17x - 14 &= -5x - 110 \\
 -17x + 5x &= -110 + 14 \\
 -12x &= -96 \\
 -12x \div (-12) &= -96 \div (-12) \\
 x &= 8
 \end{aligned}$$

7

$$\begin{aligned}
 -11x + 11 &= 3x + 39 \\
 -11x - 3x &= 39 - 11 \\
 -14x &= 28 \\
 -14x \div (-14) &= 28 \div (-14) \\
 x &= -2
 \end{aligned}$$

8

$$\begin{aligned}
 -10x + 2 &= -7x - 22 \\
 -10x + 7x &= -22 - 2 \\
 -3x &= -24 \\
 -3x \div (-3) &= -24 \div (-3) \\
 x &= 8
 \end{aligned}$$

1

$$2 = 5x - 18$$

2

$$7x + 3 = -7x - 109$$

3

$$-11x - 11 = -4x - 67$$

4

$$-21x - 14 = -6x + 121$$

5

$$-6x - 10 = 4x + 70$$

6

$$7x + 8 = -4x + 41$$

7

$$5x + 4 = -3x - 28$$

8

$$2x - 8 = -3x + 7$$

1

$$\begin{aligned}
 2 &= 5x - 18 \\
 -5x &= -18 - 2 \\
 -5x &= -20 \\
 -5x \div (-5) &= -20 \div (-5) \\
 x &= 4
 \end{aligned}$$

2

$$\begin{aligned}
 7x + 3 &= -7x - 109 \\
 7x + 7x &= -109 - 3 \\
 14x &= -112 \\
 14x \div 14 &= -112 \div 14 \\
 x &= -8
 \end{aligned}$$

3

$$\begin{aligned}
 -11x - 11 &= -4x - 67 \\
 -11x + 4x &= -67 + 11 \\
 -7x &= -56 \\
 -7x \div (-7) &= -56 \div (-7) \\
 x &= 8
 \end{aligned}$$

4

$$\begin{aligned}
 -21x - 14 &= -6x + 121 \\
 -21x + 6x &= 121 + 14 \\
 -15x &= 135 \\
 -15x \div (-15) &= 135 \div (-15) \\
 x &= -9
 \end{aligned}$$

5

$$\begin{aligned}
 -6x - 10 &= 4x + 70 \\
 -6x - 4x &= 70 + 10 \\
 -10x &= 80 \\
 -10x \div (-10) &= 80 \div (-10) \\
 x &= -8
 \end{aligned}$$

6

$$\begin{aligned}
 7x + 8 &= -4x + 41 \\
 7x + 4x &= 41 - 8 \\
 11x &= 33 \\
 11x \div 11 &= 33 \div 11 \\
 x &= 3
 \end{aligned}$$

7

$$\begin{aligned}
 5x + 4 &= -3x - 28 \\
 5x + 3x &= -28 - 4 \\
 8x &= -32 \\
 8x \div 8 &= -32 \div 8 \\
 x &= -4
 \end{aligned}$$

8

$$\begin{aligned}
 2x - 8 &= -3x + 7 \\
 2x + 3x &= 7 + 8 \\
 5x &= 15 \\
 5x \div 5 &= 15 \div 5 \\
 x &= 3
 \end{aligned}$$

1

$$18x + 5 = 7x + 16$$

2

$$16x + 12 = x + 57$$

3

$$19x - 11 = 6x + 15$$

4

$$-14x + 11 = -7x - 10$$

5

$$-9x + 12 = -3x + 54$$

6

$$-16x + 9 = -6x + 79$$

7

$$-7x + 14 = -5x + 12$$

8

$$11x - 11 = 5x - 17$$

1

$$\begin{aligned}
 18x + 5 &= 7x + 16 \\
 18x - 7x &= 16 - 5 \\
 11x &= 11 \\
 11x \div 11 &= 11 \div 11 \\
 x &= 1
 \end{aligned}$$

2

$$\begin{aligned}
 16x + 12 &= x + 57 \\
 16x - x &= 57 - 12 \\
 15x &= 45 \\
 15x \div 15 &= 45 \div 15 \\
 x &= 3
 \end{aligned}$$

3

$$\begin{aligned}
 19x - 11 &= 6x + 15 \\
 19x - 6x &= 15 + 11 \\
 13x &= 26 \\
 13x \div 13 &= 26 \div 13 \\
 x &= 2
 \end{aligned}$$

4

$$\begin{aligned}
 -14x + 11 &= -7x - 10 \\
 -14x + 7x &= -10 - 11 \\
 -7x &= -21 \\
 -7x \div (-7) &= -21 \div (-7) \\
 x &= 3
 \end{aligned}$$

5

$$\begin{aligned}
 -9x + 12 &= -3x + 54 \\
 -9x + 3x &= 54 - 12 \\
 -6x &= 42 \\
 -6x \div (-6) &= 42 \div (-6) \\
 x &= -7
 \end{aligned}$$

6

$$\begin{aligned}
 -16x + 9 &= -6x + 79 \\
 -16x + 6x &= 79 - 9 \\
 -10x &= 70 \\
 -10x \div (-10) &= 70 \div (-10) \\
 x &= -7
 \end{aligned}$$

7

$$\begin{aligned}
 -7x + 14 &= -5x + 12 \\
 -7x + 5x &= 12 - 14 \\
 -2x &= -2 \\
 -2x \div (-2) &= -2 \div (-2) \\
 x &= 1
 \end{aligned}$$

8

$$\begin{aligned}
 11x - 11 &= 5x - 17 \\
 11x - 5x &= -17 + 11 \\
 6x &= -6 \\
 6x \div 6 &= -6 \div 6 \\
 x &= -1
 \end{aligned}$$

1

$$-14x + 13 = -5x - 41$$

2

$$14x + 12 = 2x + 60$$

3

$$x - 12 = -3x - 36$$

4

$$6x - 7 = -9x + 68$$

5

$$-5x - 9 = -4x - 11$$

6

$$5x + 13 = x - 7$$

7

$$16x - 5 = 3x + 34$$

8

$$-23x - 6 = -9x - 118$$

1

$$\begin{aligned}
 -14x + 13 &= -5x - 41 \\
 -14x + 5x &= -41 - 13 \\
 -9x &= -54 \\
 -9x \div (-9) &= -54 \div (-9) \\
 x &= 6
 \end{aligned}$$

2

$$\begin{aligned}
 14x + 12 &= 2x + 60 \\
 14x - 2x &= 60 - 12 \\
 12x &= 48 \\
 12x \div 12 &= 48 \div 12 \\
 x &= 4
 \end{aligned}$$

3

$$\begin{aligned}
 x - 12 &= -3x - 36 \\
 x + 3x &= -36 + 12 \\
 4x &= -24 \\
 4x \div 4 &= -24 \div 4 \\
 x &= -6
 \end{aligned}$$

4

$$\begin{aligned}
 6x - 7 &= -9x + 68 \\
 6x + 9x &= 68 + 7 \\
 15x &= 75 \\
 15x \div 15 &= 75 \div 15 \\
 x &= 5
 \end{aligned}$$

5

$$\begin{aligned}
 -5x - 9 &= -4x - 11 \\
 -5x + 4x &= -11 + 9 \\
 -x &= -2 \\
 -x \div (-1) &= -2 \div (-1) \\
 x &= 2
 \end{aligned}$$

6

$$\begin{aligned}
 5x + 13 &= x - 7 \\
 5x - x &= -7 - 13 \\
 4x &= -20 \\
 4x \div 4 &= -20 \div 4 \\
 x &= -5
 \end{aligned}$$

7

$$\begin{aligned}
 16x - 5 &= 3x + 34 \\
 16x - 3x &= 34 + 5 \\
 13x &= 39 \\
 13x \div 13 &= 39 \div 13 \\
 x &= 3
 \end{aligned}$$

8

$$\begin{aligned}
 -23x - 6 &= -9x - 118 \\
 -23x + 9x &= -118 + 6 \\
 -14x &= -112 \\
 -14x \div (-14) &= -112 \div (-14) \\
 x &= 8
 \end{aligned}$$

①

$$8x - 1 = -3x - 45$$

②

$$10x + 9 = -5x - 21$$

③

$$13x - 3 = 6x + 53$$

④

$$-19x - 3 = -6x + 75$$

⑤

$$4 = x - 3$$

⑥

$$4x - 1 = 8x + 3$$

⑦

$$-4x - 1 = -6x + 15$$

⑧

$$-2x - 6 = 2x + 6$$

1

$$\begin{aligned}
 8x - 1 &= -3x - 45 \\
 8x + 3x &= -45 + 1 \\
 11x &= -44 \\
 11x \div 11 &= -44 \div 11 \\
 x &= -4
 \end{aligned}$$

2

$$\begin{aligned}
 10x + 9 &= -5x - 21 \\
 10x + 5x &= -21 - 9 \\
 15x &= -30 \\
 15x \div 15 &= -30 \div 15 \\
 x &= -2
 \end{aligned}$$

3

$$\begin{aligned}
 13x - 3 &= 6x + 53 \\
 13x - 6x &= 53 + 3 \\
 7x &= 56 \\
 7x \div 7 &= 56 \div 7 \\
 x &= 8
 \end{aligned}$$

4

$$\begin{aligned}
 -19x - 3 &= -6x + 75 \\
 -19x + 6x &= 75 + 3 \\
 -13x &= 78 \\
 -13x \div (-13) &= 78 \div (-13) \\
 x &= -6
 \end{aligned}$$

5

$$\begin{aligned}
 4 &= x - 3 \\
 -x &= -3 - 4 \\
 -x &= -7 \\
 -x \div (-1) &= -7 \div (-1) \\
 x &= 7
 \end{aligned}$$

6

$$\begin{aligned}
 4x - 1 &= 8x + 3 \\
 4x - 8x &= 3 + 1 \\
 -4x &= 4 \\
 -4x \div (-4) &= 4 \div (-4) \\
 x &= -1
 \end{aligned}$$

7

$$\begin{aligned}
 -4x - 1 &= -6x + 15 \\
 -4x + 6x &= 15 + 1 \\
 2x &= 16 \\
 2x \div 2 &= 16 \div 2 \\
 x &= 8
 \end{aligned}$$

8

$$\begin{aligned}
 -2x - 6 &= 2x + 6 \\
 -2x - 2x &= 6 + 6 \\
 -4x &= 12 \\
 -4x \div (-4) &= 12 \div (-4) \\
 x &= -3
 \end{aligned}$$

①

$$13x - 13 = 4x + 5$$

②

$$-4x + 15 = 3x + 1$$

③

$$-x - 3 = 5x - 51$$

④

$$-11x - 13 = -3x + 35$$

⑤

$$-19x + 15 = -5x + 71$$

⑥

$$-10x + 9 = -3x + 65$$

⑦

$$-7x + 9 = -x - 45$$

⑧

$$-15x - 11 = -6x - 2$$

1

$$13x - 13 = 4x + 5$$

$$13x - 4x = 5 + 13$$

$$9x = 18$$

$$9x \div 9 = 18 \div 9$$

$$x = 2$$

2

$$-4x + 15 = 3x + 1$$

$$-4x - 3x = 1 - 15$$

$$-7x = -14$$

$$-7x \div (-7) = -14 \div (-7)$$

$$x = 2$$

3

$$-x - 3 = 5x - 51$$

$$-x - 5x = -51 + 3$$

$$-6x = -48$$

$$-6x \div (-6) = -48 \div (-6)$$

$$x = 8$$

4

$$-11x - 13 = -3x + 35$$

$$-11x + 3x = 35 + 13$$

$$-8x = 48$$

$$-8x \div (-8) = 48 \div (-8)$$

$$x = -6$$

5

$$-19x + 15 = -5x + 71$$

$$-19x + 5x = 71 - 15$$

$$-14x = 56$$

$$-14x \div (-14) = 56 \div (-14)$$

$$x = -4$$

6

$$-10x + 9 = -3x + 65$$

$$-10x + 3x = 65 - 9$$

$$-7x = 56$$

$$-7x \div (-7) = 56 \div (-7)$$

$$x = -8$$

7

$$-7x + 9 = -x - 45$$

$$-7x + x = -45 - 9$$

$$-6x = -54$$

$$-6x \div (-6) = -54 \div (-6)$$

$$x = 9$$

8

$$-15x - 11 = -6x - 2$$

$$-15x + 6x = -2 + 11$$

$$-9x = 9$$

$$-9x \div (-9) = 9 \div (-9)$$

$$x = -1$$

1

$$-8x - 1 = 5x - 40$$

2

$$10x + 12 = -4x - 86$$

3

$$8x + 8 = -2x - 82$$

4

$$-3x - 5 = 2x + 30$$

5

$$-5x + 6 = -7x + 14$$

6

$$-9x + 11 = 6x - 124$$

7

$$3x - 13 = 8x - 8$$

8

$$-4x + 10 = 4x - 22$$

1

$$\begin{aligned}
 -8x - 1 &= 5x - 40 \\
 -8x - 5x &= -40 + 1 \\
 -13x &= -39 \\
 -13x \div (-13) &= -39 \div (-13) \\
 x &= 3
 \end{aligned}$$

2

$$\begin{aligned}
 10x + 12 &= -4x - 86 \\
 10x + 4x &= -86 - 12 \\
 14x &= -98 \\
 14x \div 14 &= -98 \div 14 \\
 x &= -7
 \end{aligned}$$

3

$$\begin{aligned}
 8x + 8 &= -2x - 82 \\
 8x + 2x &= -82 - 8 \\
 10x &= -90 \\
 10x \div 10 &= -90 \div 10 \\
 x &= -9
 \end{aligned}$$

4

$$\begin{aligned}
 -3x - 5 &= 2x + 30 \\
 -3x - 2x &= 30 + 5 \\
 -5x &= 35 \\
 -5x \div (-5) &= 35 \div (-5) \\
 x &= -7
 \end{aligned}$$

5

$$\begin{aligned}
 -5x + 6 &= -7x + 14 \\
 -5x + 7x &= 14 - 6 \\
 2x &= 8 \\
 2x \div 2 &= 8 \div 2 \\
 x &= 4
 \end{aligned}$$

6

$$\begin{aligned}
 -9x + 11 &= 6x - 124 \\
 -9x - 6x &= -124 - 11 \\
 -15x &= -135 \\
 -15x \div (-15) &= -135 \div (-15) \\
 x &= 9
 \end{aligned}$$

7

$$\begin{aligned}
 3x - 13 &= 8x - 8 \\
 3x - 8x &= -8 + 13 \\
 -5x &= 5 \\
 -5x \div (-5) &= 5 \div (-5) \\
 x &= -1
 \end{aligned}$$

8

$$\begin{aligned}
 -4x + 10 &= 4x - 22 \\
 -4x - 4x &= -22 - 10 \\
 -8x &= -32 \\
 -8x \div (-8) &= -32 \div (-8) \\
 x &= 4
 \end{aligned}$$

1

$$-10x - 9 = -4x - 21$$

2

$$-5x + 2 = -9x - 6$$

3

$$-10x + 13 = -4x + 7$$

4

$$-12x - 7 = -9x + 8$$

5

$$2x + 15 = 7x + 55$$

6

$$13x - 10 = 9x + 10$$

7

$$3x - 1 = -7x - 51$$

8

$$7x - 6 = -7x + 64$$

1

$$\begin{aligned}
 -10x - 9 &= -4x - 21 \\
 -10x + 4x &= -21 + 9 \\
 -6x &= -12 \\
 -6x \div (-6) &= -12 \div (-6) \\
 x &= 2
 \end{aligned}$$

2

$$\begin{aligned}
 -5x + 2 &= -9x - 6 \\
 -5x + 9x &= -6 - 2 \\
 4x &= -8 \\
 4x \div 4 &= -8 \div 4 \\
 x &= -2
 \end{aligned}$$

3

$$\begin{aligned}
 -10x + 13 &= -4x + 7 \\
 -10x + 4x &= 7 - 13 \\
 -6x &= -6 \\
 -6x \div (-6) &= -6 \div (-6) \\
 x &= 1
 \end{aligned}$$

4

$$\begin{aligned}
 -12x - 7 &= -9x + 8 \\
 -12x + 9x &= 8 + 7 \\
 -3x &= 15 \\
 -3x \div (-3) &= 15 \div (-3) \\
 x &= -5
 \end{aligned}$$

5

$$\begin{aligned}
 2x + 15 &= 7x + 55 \\
 2x - 7x &= 55 - 15 \\
 -5x &= 40 \\
 -5x \div (-5) &= 40 \div (-5) \\
 x &= -8
 \end{aligned}$$

6

$$\begin{aligned}
 13x - 10 &= 9x + 10 \\
 13x - 9x &= 10 + 10 \\
 4x &= 20 \\
 4x \div 4 &= 20 \div 4 \\
 x &= 5
 \end{aligned}$$

7

$$\begin{aligned}
 3x - 1 &= -7x - 51 \\
 3x + 7x &= -51 + 1 \\
 10x &= -50 \\
 10x \div 10 &= -50 \div 10 \\
 x &= -5
 \end{aligned}$$

8

$$\begin{aligned}
 7x - 6 &= -7x + 64 \\
 7x + 7x &= 64 + 6 \\
 14x &= 70 \\
 14x \div 14 &= 70 \div 14 \\
 x &= 5
 \end{aligned}$$

1

$$12x + 9 = 6x - 21$$

2

$$8x - 9 = 5x - 27$$

3

$$2x + 14 = -4x - 16$$

4

$$-19x - 12 = -5x + 114$$

5

$$-15x - 8 = -4x - 96$$

6

$$10x - 8 = 4x - 2$$

7

$$-4x + 13 = 6x + 63$$

8

$$-3x - 10 = 5x - 18$$

1

$$\begin{aligned}
 12x + 9 &= 6x - 21 \\
 12x - 6x &= -21 - 9 \\
 6x &= -30 \\
 6x \div 6 &= -30 \div 6 \\
 x &= -5
 \end{aligned}$$

2

$$\begin{aligned}
 8x - 9 &= 5x - 27 \\
 8x - 5x &= -27 + 9 \\
 3x &= -18 \\
 3x \div 3 &= -18 \div 3 \\
 x &= -6
 \end{aligned}$$

3

$$\begin{aligned}
 2x + 14 &= -4x - 16 \\
 2x + 4x &= -16 - 14 \\
 6x &= -30 \\
 6x \div 6 &= -30 \div 6 \\
 x &= -5
 \end{aligned}$$

4

$$\begin{aligned}
 -19x - 12 &= -5x + 114 \\
 -19x + 5x &= 114 + 12 \\
 -14x &= 126 \\
 -14x \div (-14) &= 126 \div (-14) \\
 x &= -9
 \end{aligned}$$

5

$$\begin{aligned}
 -15x - 8 &= -4x - 96 \\
 -15x + 4x &= -96 + 8 \\
 -11x &= -88 \\
 -11x \div (-11) &= -88 \div (-11) \\
 x &= 8
 \end{aligned}$$

6

$$\begin{aligned}
 10x - 8 &= 4x - 2 \\
 10x - 4x &= -2 + 8 \\
 6x &= 6 \\
 6x \div 6 &= 6 \div 6 \\
 x &= 1
 \end{aligned}$$

7

$$\begin{aligned}
 -4x + 13 &= 6x + 63 \\
 -4x - 6x &= 63 - 13 \\
 -10x &= 50 \\
 -10x \div (-10) &= 50 \div (-10) \\
 x &= -5
 \end{aligned}$$

8

$$\begin{aligned}
 -3x - 10 &= 5x - 18 \\
 -3x - 5x &= -18 + 10 \\
 -8x &= -8 \\
 -8x \div (-8) &= -8 \div (-8) \\
 x &= 1
 \end{aligned}$$

1

$$-10x - 3 = 3x + 62$$

2

$$-7x - 10 = -2x - 25$$

3

$$3x + 11 = -9x + 71$$

4

$$-9x - 12 = 5x - 124$$

5

$$-9x - 14 = -3x + 16$$

6

$$12x - 1 = 9x + 8$$

7

$$17x + 2 = 6x + 57$$

8

$$-5x - 14 = 8x - 27$$

1

$$\begin{aligned}
 -10x - 3 &= 3x + 62 \\
 -10x - 3x &= 62 + 3 \\
 -13x &= 65 \\
 -13x \div (-13) &= 65 \div (-13) \\
 x &= -5
 \end{aligned}$$

2

$$\begin{aligned}
 -7x - 10 &= -2x - 25 \\
 -7x + 2x &= -25 + 10 \\
 -5x &= -15 \\
 -5x \div (-5) &= -15 \div (-5) \\
 x &= 3
 \end{aligned}$$

3

$$\begin{aligned}
 3x + 11 &= -9x + 71 \\
 3x + 9x &= 71 - 11 \\
 12x &= 60 \\
 12x \div 12 &= 60 \div 12 \\
 x &= 5
 \end{aligned}$$

4

$$\begin{aligned}
 -9x - 12 &= 5x - 124 \\
 -9x - 5x &= -124 + 12 \\
 -14x &= -112 \\
 -14x \div (-14) &= -112 \div (-14) \\
 x &= 8
 \end{aligned}$$

5

$$\begin{aligned}
 -9x - 14 &= -3x + 16 \\
 -9x + 3x &= 16 + 14 \\
 -6x &= 30 \\
 -6x \div (-6) &= 30 \div (-6) \\
 x &= -5
 \end{aligned}$$

6

$$\begin{aligned}
 12x - 1 &= 9x + 8 \\
 12x - 9x &= 8 + 1 \\
 3x &= 9 \\
 3x \div 3 &= 9 \div 3 \\
 x &= 3
 \end{aligned}$$

7

$$\begin{aligned}
 17x + 2 &= 6x + 57 \\
 17x - 6x &= 57 - 2 \\
 11x &= 55 \\
 11x \div 11 &= 55 \div 11 \\
 x &= 5
 \end{aligned}$$

8

$$\begin{aligned}
 -5x - 14 &= 8x - 27 \\
 -5x - 8x &= -27 + 14 \\
 -13x &= -13 \\
 -13x \div (-13) &= -13 \div (-13) \\
 x &= 1
 \end{aligned}$$

1

$$-5x - 7 = -3x - 19$$

2

$$-6x + 6 = 8x - 92$$

3

$$-2x + 3 = 8x - 37$$

4

$$8x - 2 = -5x + 89$$

5

$$13x + 4 = 3x + 44$$

6

$$-15x - 9 = -9x - 57$$

7

$$-8x + 15 = 5x + 119$$

8

$$-22x + 7 = -9x + 111$$

1

$$\begin{aligned}
 -5x - 7 &= -3x - 19 \\
 -5x + 3x &= -19 + 7 \\
 -2x &= -12 \\
 -2x \div (-2) &= -12 \div (-2) \\
 x &= 6
 \end{aligned}$$

2

$$\begin{aligned}
 -6x + 6 &= 8x - 92 \\
 -6x - 8x &= -92 - 6 \\
 -14x &= -98 \\
 -14x \div (-14) &= -98 \div (-14) \\
 x &= 7
 \end{aligned}$$

3

$$\begin{aligned}
 -2x + 3 &= 8x - 37 \\
 -2x - 8x &= -37 - 3 \\
 -10x &= -40 \\
 -10x \div (-10) &= -40 \div (-10) \\
 x &= 4
 \end{aligned}$$

4

$$\begin{aligned}
 8x - 2 &= -5x + 89 \\
 8x + 5x &= 89 + 2 \\
 13x &= 91 \\
 13x \div 13 &= 91 \div 13 \\
 x &= 7
 \end{aligned}$$

5

$$\begin{aligned}
 13x + 4 &= 3x + 44 \\
 13x - 3x &= 44 - 4 \\
 10x &= 40 \\
 10x \div 10 &= 40 \div 10 \\
 x &= 4
 \end{aligned}$$

6

$$\begin{aligned}
 -15x - 9 &= -9x - 57 \\
 -15x + 9x &= -57 + 9 \\
 -6x &= -48 \\
 -6x \div (-6) &= -48 \div (-6) \\
 x &= 8
 \end{aligned}$$

7

$$\begin{aligned}
 -8x + 15 &= 5x + 119 \\
 -8x - 5x &= 119 - 15 \\
 -13x &= 104 \\
 -13x \div (-13) &= 104 \div (-13) \\
 x &= -8
 \end{aligned}$$

8

$$\begin{aligned}
 -22x + 7 &= -9x + 111 \\
 -22x + 9x &= 111 - 7 \\
 -13x &= 104 \\
 -13x \div (-13) &= 104 \div (-13) \\
 x &= -8
 \end{aligned}$$

1

$$-11x - 4 = -3x - 28$$

2

$$-2x - 12 = 4x - 6$$

3

$$19x + 4 = 8x - 62$$

4

$$-7x - 6 = -3x + 14$$

5

$$-17x - 5 = -3x - 117$$

6

$$x - 1 = 6x + 4$$

7

$$5x - 3 = -6x + 96$$

8

$$-5x + 3 = x + 57$$

1

$$\begin{aligned}
 -11x - 4 &= -3x - 28 \\
 -11x + 3x &= -28 + 4 \\
 -8x &= -24 \\
 -8x \div (-8) &= -24 \div (-8) \\
 x &= 3
 \end{aligned}$$

2

$$\begin{aligned}
 -2x - 12 &= 4x - 6 \\
 -2x - 4x &= -6 + 12 \\
 -6x &= 6 \\
 -6x \div (-6) &= 6 \div (-6) \\
 x &= -1
 \end{aligned}$$

3

$$\begin{aligned}
 19x + 4 &= 8x - 62 \\
 19x - 8x &= -62 - 4 \\
 11x &= -66 \\
 11x \div 11 &= -66 \div 11 \\
 x &= -6
 \end{aligned}$$

4

$$\begin{aligned}
 -7x - 6 &= -3x + 14 \\
 -7x + 3x &= 14 + 6 \\
 -4x &= 20 \\
 -4x \div (-4) &= 20 \div (-4) \\
 x &= -5
 \end{aligned}$$

5

$$\begin{aligned}
 -17x - 5 &= -3x - 117 \\
 -17x + 3x &= -117 + 5 \\
 -14x &= -112 \\
 -14x \div (-14) &= -112 \div (-14) \\
 x &= 8
 \end{aligned}$$

6

$$\begin{aligned}
 x - 1 &= 6x + 4 \\
 x - 6x &= 4 + 1 \\
 -5x &= 5 \\
 -5x \div (-5) &= 5 \div (-5) \\
 x &= -1
 \end{aligned}$$

7

$$\begin{aligned}
 5x - 3 &= -6x + 96 \\
 5x + 6x &= 96 + 3 \\
 11x &= 99 \\
 11x \div 11 &= 99 \div 11 \\
 x &= 9
 \end{aligned}$$

8

$$\begin{aligned}
 -5x + 3 &= x + 57 \\
 -5x - x &= 57 - 3 \\
 -6x &= 54 \\
 -6x \div (-6) &= 54 \div (-6) \\
 x &= -9
 \end{aligned}$$