

すきプリ 中学数学
多項式の展開

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乗法公式を使って、多項式を展開しましょう。

$$(c - 7)(c + 9)$$

$$(m - 7)(m + 8)$$

$$(b - 1)(b + 5)$$

$$(c + 9)(c + 4)$$

$$(y - 9)(y - 4)$$

$$(a - 6)(a - 7)$$

$$(a - 2)(a + 8)$$

$$(x + 1)(x + 8)$$

$$(x + 6)(x - 2)$$

$$(m - 1)(m + 4)$$

$$\begin{aligned} & (c - 7)(c + 9) \\ &= c^2 + (-7 + 9)c - 7 \times 9 \\ &= c^2 + 2c - 63 \end{aligned}$$

$$\begin{aligned} & (m - 7)(m + 8) \\ &= m^2 + (-7 + 8)m - 7 \times 8 \\ &= m^2 + m - 56 \end{aligned}$$

$$\begin{aligned} & (b - 1)(b + 5) \\ &= b^2 + (-1 + 5)b - 1 \times 5 \\ &= b^2 + 4b - 5 \end{aligned}$$

$$\begin{aligned} & (c + 9)(c + 4) \\ &= c^2 + (9 + 4)c + 9 \times 4 \\ &= c^2 + 13c + 36 \end{aligned}$$

$$\begin{aligned} & (y - 9)(y - 4) \\ &= y^2 + (-9 - 4)y - 9 \times (-4) \\ &= y^2 - 13y + 36 \end{aligned}$$

$$\begin{aligned} & (a - 6)(a - 7) \\ &= a^2 + (-6 - 7)a - 6 \times (-7) \\ &= a^2 - 13a + 42 \end{aligned}$$

$$\begin{aligned} & (a - 2)(a + 8) \\ &= a^2 + (-2 + 8)a - 2 \times 8 \\ &= a^2 + 6a - 16 \end{aligned}$$

$$\begin{aligned} & (x + 1)(x + 8) \\ &= x^2 + (1 + 8)x + 1 \times 8 \\ &= x^2 + 9x + 8 \end{aligned}$$

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

$$\begin{aligned} & (m - 1)(m + 4) \\ &= m^2 + (-1 + 4)m - 1 \times 4 \\ &= m^2 + 3m - 4 \end{aligned}$$

$$(a + 6)(a - 7)$$

$$(a + 5)(a + 2)$$

$$(a - 5)(a + 4)$$

$$(x + 7)(x + 9)$$

$$(n - 4)(n - 3)$$

$$(m - 8)(m - 5)$$

$$(n + 9)(n - 6)$$

$$(y - 2)(y + 9)$$

$$(n + 1)(n - 6)$$

$$(n + 1)(n + 6)$$

$$\begin{aligned} & (a + 6)(a - 7) \\ &= a^2 + (6 - 7)a + 6 \times (-7) \\ &= a^2 - a - 42 \end{aligned}$$

$$\begin{aligned} & (a + 5)(a + 2) \\ &= a^2 + (5 + 2)a + 5 \times 2 \\ &= a^2 + 7a + 10 \end{aligned}$$

$$\begin{aligned} & (a - 5)(a + 4) \\ &= a^2 + (-5 + 4)a - 5 \times 4 \\ &= a^2 - a - 20 \end{aligned}$$

$$\begin{aligned} & (x + 7)(x + 9) \\ &= x^2 + (7 + 9)x + 7 \times 9 \\ &= x^2 + 16x + 63 \end{aligned}$$

$$\begin{aligned} & (n - 4)(n - 3) \\ &= n^2 + (-4 - 3)n - 4 \times (-3) \\ &= n^2 - 7n + 12 \end{aligned}$$

$$\begin{aligned} & (m - 8)(m - 5) \\ &= m^2 + (-8 - 5)m - 8 \times (-5) \\ &= m^2 - 13m + 40 \end{aligned}$$

$$\begin{aligned} & (n + 9)(n - 6) \\ &= n^2 + (9 - 6)n + 9 \times (-6) \\ &= n^2 + 3n - 54 \end{aligned}$$

$$\begin{aligned} & (y - 2)(y + 9) \\ &= y^2 + (-2 + 9)y - 2 \times 9 \\ &= y^2 + 7y - 18 \end{aligned}$$

$$\begin{aligned} & (n + 1)(n - 6) \\ &= n^2 + (1 - 6)n + 1 \times (-6) \\ &= n^2 - 5n - 6 \end{aligned}$$

$$\begin{aligned} & (n + 1)(n + 6) \\ &= n^2 + (1 + 6)n + 1 \times 6 \\ &= n^2 + 7n + 6 \end{aligned}$$

$$\left(a + \frac{3}{5}\right) \left(a + \frac{3}{4}\right)$$

$$(c - 4)(c + 2)$$

$$(c - 4)(c + 1)$$

$$(m + 5)(m - 8)$$

$$(m + 8)(m + 7)$$

$$\left(m + \frac{2}{3}\right) \left(m - \frac{2}{5}\right)$$

$$(a - 3)(a + 2)$$

$$\left(x - \frac{1}{3}\right) \left(x - \frac{3}{2}\right)$$

$$\left(a - \frac{2}{5}\right) \left(a + \frac{1}{2}\right)$$

$$(c - 5)(c + 9)$$

$$\begin{aligned}
& \left(a + \frac{3}{5}\right) \left(a + \frac{3}{4}\right) \\
&= a^2 + \left(\frac{3}{5} + \frac{3}{4}\right) a + \frac{3}{5} \times \frac{3}{4} \\
&= a^2 + \frac{27}{20} a + \frac{9}{20}
\end{aligned}$$

$$\begin{aligned}
& (c - 4)(c + 2) \\
&= c^2 + (-4 + 2)c - 4 \times 2 \\
&= c^2 - 2c - 8
\end{aligned}$$

$$\begin{aligned}
& (c - 4)(c + 1) \\
&= c^2 + (-4 + 1)c - 4 \times 1 \\
&= c^2 - 3c - 4
\end{aligned}$$

$$\begin{aligned}
& (m + 5)(m - 8) \\
&= m^2 + (5 - 8)m + 5 \times (-8) \\
&= m^2 - 3m - 40
\end{aligned}$$

$$\begin{aligned}
& (m + 8)(m + 7) \\
&= m^2 + (8 + 7)m + 8 \times 7 \\
&= m^2 + 15m + 56
\end{aligned}$$

$$\begin{aligned}
& \left(m + \frac{2}{3}\right) \left(m - \frac{2}{5}\right) \\
&= m^2 + \left(\frac{2}{3} - \frac{2}{5}\right) m + \frac{2}{3} \times \left(-\frac{2}{5}\right) \\
&= m^2 + \frac{4}{15} m - \frac{4}{15}
\end{aligned}$$

$$\begin{aligned}
& (a - 3)(a + 2) \\
&= a^2 + (-3 + 2)a - 3 \times 2 \\
&= a^2 - a - 6
\end{aligned}$$

$$\begin{aligned}
& \left(x - \frac{1}{3}\right) \left(x - \frac{3}{2}\right) \\
&= x^2 + \left(-\frac{1}{3} - \frac{3}{2}\right) x - \frac{1}{3} \times \left(-\frac{3}{2}\right) \\
&= x^2 - \frac{11}{6} x + \frac{1}{2}
\end{aligned}$$

$$\begin{aligned}
& \left(a - \frac{2}{5}\right) \left(a + \frac{1}{2}\right) \\
&= a^2 + \left(-\frac{2}{5} + \frac{1}{2}\right) a - \frac{2}{5} \times \frac{1}{2} \\
&= a^2 + \frac{1}{10} a - \frac{1}{5}
\end{aligned}$$

$$\begin{aligned}
& (c - 5)(c + 9) \\
&= c^2 + (-5 + 9)c - 5 \times 9 \\
&= c^2 + 4c - 45
\end{aligned}$$

$$(z - 1)(z + 5)$$

$$(x + 7)(x + 5)$$

$$(z + 2)(z + 5)$$

$$(x - 9)(x - 4)$$

$$(b - 3)(b + 2)$$

$$(x - 5)(x + 4)$$

$$(c - 9)(c - 8)$$

$$(x + 5)(x + 7)$$

$$(n - 5)(n - 2)$$

$$(n + 6)(n - 9)$$

$$\begin{aligned} & (z - 1)(z + 5) \\ &= z^2 + (-1 + 5)z - 1 \times 5 \\ &= z^2 + 4z - 5 \end{aligned}$$

$$\begin{aligned} & (x + 7)(x + 5) \\ &= x^2 + (7 + 5)x + 7 \times 5 \\ &= x^2 + 12x + 35 \end{aligned}$$

$$\begin{aligned} & (z + 2)(z + 5) \\ &= z^2 + (2 + 5)z + 2 \times 5 \\ &= z^2 + 7z + 10 \end{aligned}$$

$$\begin{aligned} & (x - 9)(x - 4) \\ &= x^2 + (-9 - 4)x - 9 \times (-4) \\ &= x^2 - 13x + 36 \end{aligned}$$

$$\begin{aligned} & (b - 3)(b + 2) \\ &= b^2 + (-3 + 2)b - 3 \times 2 \\ &= b^2 - b - 6 \end{aligned}$$

$$\begin{aligned} & (x - 5)(x + 4) \\ &= x^2 + (-5 + 4)x - 5 \times 4 \\ &= x^2 - x - 20 \end{aligned}$$

$$\begin{aligned} & (c - 9)(c - 8) \\ &= c^2 + (-9 - 8)c - 9 \times (-8) \\ &= c^2 - 17c + 72 \end{aligned}$$

$$\begin{aligned} & (x + 5)(x + 7) \\ &= x^2 + (5 + 7)x + 5 \times 7 \\ &= x^2 + 12x + 35 \end{aligned}$$

$$\begin{aligned} & (n - 5)(n - 2) \\ &= n^2 + (-5 - 2)n - 5 \times (-2) \\ &= n^2 - 7n + 10 \end{aligned}$$

$$\begin{aligned} & (n + 6)(n - 9) \\ &= n^2 + (6 - 9)n + 6 \times (-9) \\ &= n^2 - 3n - 54 \end{aligned}$$

$$\left(y + \frac{3}{2}\right) \left(y + \frac{1}{5}\right)$$

$$(a + 5)(a - 3)$$

$$(m + 4)(m + 3)$$

$$(m - 9)(m + 3)$$

$$(c + 9)(c - 3)$$

$$(a - 2)(a - 4)$$

$$(n - 1)(n - 9)$$

$$(c - 1)(c + 4)$$

$$(a - 6)(a + 9)$$

$$(z - 3)(z + 4)$$

$$\begin{aligned} & \left(y + \frac{3}{2}\right) \left(y + \frac{1}{5}\right) \\ &= y^2 + \left(\frac{3}{2} + \frac{1}{5}\right)y + \frac{3}{2} \times \frac{1}{5} \\ &= y^2 + \frac{17}{10}y + \frac{3}{10} \end{aligned}$$

$$\begin{aligned} & (a + 5)(a - 3) \\ &= a^2 + (5 - 3)a + 5 \times (-3) \\ &= a^2 + 2a - 15 \end{aligned}$$

$$\begin{aligned} & (m + 4)(m + 3) \\ &= m^2 + (4 + 3)m + 4 \times 3 \\ &= m^2 + 7m + 12 \end{aligned}$$

$$\begin{aligned} & (m - 9)(m + 3) \\ &= m^2 + (-9 + 3)m - 9 \times 3 \\ &= m^2 - 6m - 27 \end{aligned}$$

$$\begin{aligned} & (c + 9)(c - 3) \\ &= c^2 + (9 - 3)c + 9 \times (-3) \\ &= c^2 + 6c - 27 \end{aligned}$$

$$\begin{aligned} & (a - 2)(a - 4) \\ &= a^2 + (-2 - 4)a - 2 \times (-4) \\ &= a^2 - 6a + 8 \end{aligned}$$

$$\begin{aligned} & (n - 1)(n - 9) \\ &= n^2 + (-1 - 9)n - 1 \times (-9) \\ &= n^2 - 10n + 9 \end{aligned}$$

$$\begin{aligned} & (c - 1)(c + 4) \\ &= c^2 + (-1 + 4)c - 1 \times 4 \\ &= c^2 + 3c - 4 \end{aligned}$$

$$\begin{aligned} & (a - 6)(a + 9) \\ &= a^2 + (-6 + 9)a - 6 \times 9 \\ &= a^2 + 3a - 54 \end{aligned}$$

$$\begin{aligned} & (z - 3)(z + 4) \\ &= z^2 + (-3 + 4)z - 3 \times 4 \\ &= z^2 + z - 12 \end{aligned}$$

$$(n + 1)(n + 6)$$

$$(b + 6)(b - 7)$$

$$(z + 4)(z + 7)$$

$$(c + 1)(c + 3)$$

$$(a - 9)(a + 8)$$

$$(a + 7)(a + 6)$$

$$(z - 3)(z - 5)$$

$$(m - 5)(m + 7)$$

$$(a + 4)(a + 9)$$

$$(y + 6)(y - 8)$$

$$\begin{aligned} & (n+1)(n+6) \\ &= n^2 + (1+6)n + 1 \times 6 \\ &= n^2 + 7n + 6 \end{aligned}$$

$$\begin{aligned} & (b+6)(b-7) \\ &= b^2 + (6-7)b + 6 \times (-7) \\ &= b^2 - b - 42 \end{aligned}$$

$$\begin{aligned} & (z+4)(z+7) \\ &= z^2 + (4+7)z + 4 \times 7 \\ &= z^2 + 11z + 28 \end{aligned}$$

$$\begin{aligned} & (c+1)(c+3) \\ &= c^2 + (1+3)c + 1 \times 3 \\ &= c^2 + 4c + 3 \end{aligned}$$

$$\begin{aligned} & (a-9)(a+8) \\ &= a^2 + (-9+8)a - 9 \times 8 \\ &= a^2 - a - 72 \end{aligned}$$

$$\begin{aligned} & (a+7)(a+6) \\ &= a^2 + (7+6)a + 7 \times 6 \\ &= a^2 + 13a + 42 \end{aligned}$$

$$\begin{aligned} & (z-3)(z-5) \\ &= z^2 + (-3-5)z - 3 \times (-5) \\ &= z^2 - 8z + 15 \end{aligned}$$

$$\begin{aligned} & (m-5)(m+7) \\ &= m^2 + (-5+7)m - 5 \times 7 \\ &= m^2 + 2m - 35 \end{aligned}$$

$$\begin{aligned} & (a+4)(a+9) \\ &= a^2 + (4+9)a + 4 \times 9 \\ &= a^2 + 13a + 36 \end{aligned}$$

$$\begin{aligned} & (y+6)(y-8) \\ &= y^2 + (6-8)y + 6 \times (-8) \\ &= y^2 - 2y - 48 \end{aligned}$$

$$(m + 6)(m - 5)$$

$$(y + 3)(y + 7)$$

$$(y - 7)(y + 2)$$

$$(n + 7)(n - 8)$$

$$\left(n + \frac{1}{4}\right)\left(n + \frac{3}{2}\right)$$

$$(n + 4)(n - 6)$$

$$(n - 1)(n + 6)$$

$$(y + 3)(y - 4)$$

$$(n + 7)(n - 5)$$

$$(z + 6)(z + 4)$$

$$\begin{aligned} & (m+6)(m-5) \\ &= m^2 + (6-5)m + 6 \times (-5) \\ &= m^2 + m - 30 \end{aligned}$$

$$\begin{aligned} & (y+3)(y+7) \\ &= y^2 + (3+7)y + 3 \times 7 \\ &= y^2 + 10y + 21 \end{aligned}$$

$$\begin{aligned} & (y-7)(y+2) \\ &= y^2 + (-7+2)y - 7 \times 2 \\ &= y^2 - 5y - 14 \end{aligned}$$

$$\begin{aligned} & (n+7)(n-8) \\ &= n^2 + (7-8)n + 7 \times (-8) \\ &= n^2 - n - 56 \end{aligned}$$

$$\begin{aligned} & \left(n + \frac{1}{4}\right) \left(n + \frac{3}{2}\right) \\ &= n^2 + \left(\frac{1}{4} + \frac{3}{2}\right)n + \frac{1}{4} \times \frac{3}{2} \\ &= n^2 + \frac{7}{4}n + \frac{3}{8} \end{aligned}$$

$$\begin{aligned} & (n+4)(n-6) \\ &= n^2 + (4-6)n + 4 \times (-6) \\ &= n^2 - 2n - 24 \end{aligned}$$

$$\begin{aligned} & (n-1)(n+6) \\ &= n^2 + (-1+6)n - 1 \times 6 \\ &= n^2 + 5n - 6 \end{aligned}$$

$$\begin{aligned} & (y+3)(y-4) \\ &= y^2 + (3-4)y + 3 \times (-4) \\ &= y^2 - y - 12 \end{aligned}$$

$$\begin{aligned} & (n+7)(n-5) \\ &= n^2 + (7-5)n + 7 \times (-5) \\ &= n^2 + 2n - 35 \end{aligned}$$

$$\begin{aligned} & (z+6)(z+4) \\ &= z^2 + (6+4)z + 6 \times 4 \\ &= z^2 + 10z + 24 \end{aligned}$$

$$(a + 5)(a - 4)$$

$$(c - 2)(c + 7)$$

$$(n + 7)(n + 5)$$

$$\left(x - \frac{1}{6}\right)\left(x + \frac{1}{5}\right)$$

$$(b + 7)(b - 8)$$

$$(x + 1)(x + 3)$$

$$(z - 9)(z + 2)$$

$$(z + 2)(z - 5)$$

$$(z - 9)(z + 4)$$

$$\left(y + \frac{3}{2}\right)\left(y - \frac{2}{5}\right)$$

$$\begin{aligned} & (a+5)(a-4) \\ &= a^2 + (5-4)a + 5 \times (-4) \\ &= a^2 + a - 20 \end{aligned}$$

$$\begin{aligned} & (c-2)(c+7) \\ &= c^2 + (-2+7)c - 2 \times 7 \\ &= c^2 + 5c - 14 \end{aligned}$$

$$\begin{aligned} & (n+7)(n+5) \\ &= n^2 + (7+5)n + 7 \times 5 \\ &= n^2 + 12n + 35 \end{aligned}$$

$$\begin{aligned} & \left(x - \frac{1}{6}\right) \left(x + \frac{1}{5}\right) \\ &= x^2 + \left(-\frac{1}{6} + \frac{1}{5}\right)x - \frac{1}{6} \times \frac{1}{5} \\ &= x^2 + \frac{1}{30}x - \frac{1}{30} \end{aligned}$$

$$\begin{aligned} & (b+7)(b-8) \\ &= b^2 + (7-8)b + 7 \times (-8) \\ &= b^2 - b - 56 \end{aligned}$$

$$\begin{aligned} & (x+1)(x+3) \\ &= x^2 + (1+3)x + 1 \times 3 \\ &= x^2 + 4x + 3 \end{aligned}$$

$$\begin{aligned} & (z-9)(z+2) \\ &= z^2 + (-9+2)z - 9 \times 2 \\ &= z^2 - 7z - 18 \end{aligned}$$

$$\begin{aligned} & (z+2)(z-5) \\ &= z^2 + (2-5)z + 2 \times (-5) \\ &= z^2 - 3z - 10 \end{aligned}$$

$$\begin{aligned} & (z-9)(z+4) \\ &= z^2 + (-9+4)z - 9 \times 4 \\ &= z^2 - 5z - 36 \end{aligned}$$

$$\begin{aligned} & \left(y + \frac{3}{2}\right) \left(y - \frac{2}{5}\right) \\ &= y^2 + \left(\frac{3}{2} - \frac{2}{5}\right)y + \frac{3}{2} \times \left(-\frac{2}{5}\right) \\ &= y^2 + \frac{11}{10}y - \frac{3}{5} \end{aligned}$$

$$(z + 9)(z + 8)$$

$$(b + 8)(b - 9)$$

$$(n + 8)(n + 9)$$

$$(z + 5)(z + 9)$$

$$(y - 4)(y - 3)$$

$$(x - 4)(x - 1)$$

$$(y - 2)(y + 1)$$

$$(m + 8)(m - 6)$$

$$(a + 6)(a - 4)$$

$$(b + 9)(b + 1)$$

$$\begin{aligned} & (z + 9)(z + 8) \\ &= z^2 + (9 + 8)z + 9 \times 8 \\ &= z^2 + 17z + 72 \end{aligned}$$

$$\begin{aligned} & (b + 8)(b - 9) \\ &= b^2 + (8 - 9)b + 8 \times (-9) \\ &= b^2 - b - 72 \end{aligned}$$

$$\begin{aligned} & (n + 8)(n + 9) \\ &= n^2 + (8 + 9)n + 8 \times 9 \\ &= n^2 + 17n + 72 \end{aligned}$$

$$\begin{aligned} & (z + 5)(z + 9) \\ &= z^2 + (5 + 9)z + 5 \times 9 \\ &= z^2 + 14z + 45 \end{aligned}$$

$$\begin{aligned} & (y - 4)(y - 3) \\ &= y^2 + (-4 - 3)y - 4 \times (-3) \\ &= y^2 - 7y + 12 \end{aligned}$$

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

$$\begin{aligned} & (y - 2)(y + 1) \\ &= y^2 + (-2 + 1)y - 2 \times 1 \\ &= y^2 - y - 2 \end{aligned}$$

$$\begin{aligned} & (m + 8)(m - 6) \\ &= m^2 + (8 - 6)m + 8 \times (-6) \\ &= m^2 + 2m - 48 \end{aligned}$$

$$\begin{aligned} & (a + 6)(a - 4) \\ &= a^2 + (6 - 4)a + 6 \times (-4) \\ &= a^2 + 2a - 24 \end{aligned}$$

$$\begin{aligned} & (b + 9)(b + 1) \\ &= b^2 + (9 + 1)b + 9 \times 1 \\ &= b^2 + 10b + 9 \end{aligned}$$

$$(m - 6)(m - 4)$$

$$(b + 4)(b - 6)$$

$$(c + 8)(c + 3)$$

$$(a + 6)(a - 2)$$

$$(x - 5)(x - 8)$$

$$(c - 3)(c + 5)$$

$$(c + 2)(c + 6)$$

$$(z + 4)(z - 2)$$

$$(n + 3)(n - 7)$$

$$(c - 8)(c + 4)$$

$$\begin{aligned} & (m-6)(m-4) \\ &= m^2 + (-6-4)m - 6 \times (-4) \\ &= m^2 - 10m + 24 \end{aligned}$$

$$\begin{aligned} & (b+4)(b-6) \\ &= b^2 + (4-6)b + 4 \times (-6) \\ &= b^2 - 2b - 24 \end{aligned}$$

$$\begin{aligned} & (c+8)(c+3) \\ &= c^2 + (8+3)c + 8 \times 3 \\ &= c^2 + 11c + 24 \end{aligned}$$

$$\begin{aligned} & (a+6)(a-2) \\ &= a^2 + (6-2)a + 6 \times (-2) \\ &= a^2 + 4a - 12 \end{aligned}$$

$$\begin{aligned} & (x-5)(x-8) \\ &= x^2 + (-5-8)x - 5 \times (-8) \\ &= x^2 - 13x + 40 \end{aligned}$$

$$\begin{aligned} & (c-3)(c+5) \\ &= c^2 + (-3+5)c - 3 \times 5 \\ &= c^2 + 2c - 15 \end{aligned}$$

$$\begin{aligned} & (c+2)(c+6) \\ &= c^2 + (2+6)c + 2 \times 6 \\ &= c^2 + 8c + 12 \end{aligned}$$

$$\begin{aligned} & (z+4)(z-2) \\ &= z^2 + (4-2)z + 4 \times (-2) \\ &= z^2 + 2z - 8 \end{aligned}$$

$$\begin{aligned} & (n+3)(n-7) \\ &= n^2 + (3-7)n + 3 \times (-7) \\ &= n^2 - 4n - 21 \end{aligned}$$

$$\begin{aligned} & (c-8)(c+4) \\ &= c^2 + (-8+4)c - 8 \times 4 \\ &= c^2 - 4c - 32 \end{aligned}$$

問題

乗法公式を使って、多項式を展開しましょう。

$$(a - 20)^2$$

$$(z + 18)(z - 18)$$

$$(x + 11)(x - 11)$$

$$(x + 5)(x - 5)$$

$$(m + 20)^2$$

$$(m + 5)(m - 5)$$

$$(17 + b)(17 - b)$$

$$(10 + c)(10 - c)$$

$$(z + 6)(z - 6)$$

$$(n + 17)(n - 17)$$

$$\begin{aligned} & (a - 20)^2 \\ &= a^2 - 2 \times 20 \times a + 20^2 \\ &= a^2 - 40a + 400 \end{aligned}$$

$$\begin{aligned} & (z + 18)(z - 18) \\ &= z^2 - 18^2 \\ &= z^2 - 324 \end{aligned}$$

$$\begin{aligned} & (x + 11)(x - 11) \\ &= x^2 - 11^2 \\ &= x^2 - 121 \end{aligned}$$

$$\begin{aligned} & (x + 5)(x - 5) \\ &= x^2 - 5^2 \\ &= x^2 - 25 \end{aligned}$$

$$\begin{aligned} & (m + 20)^2 \\ &= m^2 + 2 \times 20 \times m + 20^2 \\ &= m^2 + 40m + 400 \end{aligned}$$

$$\begin{aligned} & (m + 5)(m - 5) \\ &= m^2 - 5^2 \\ &= m^2 - 25 \end{aligned}$$

$$\begin{aligned} & (17 + b)(17 - b) \\ &= 17^2 - b^2 \\ &= 289 - b^2 \end{aligned}$$

$$\begin{aligned} & (10 + c)(10 - c) \\ &= 10^2 - c^2 \\ &= 100 - c^2 \end{aligned}$$

$$\begin{aligned} & (z + 6)(z - 6) \\ &= z^2 - 6^2 \\ &= z^2 - 36 \end{aligned}$$

$$\begin{aligned} & (n + 17)(n - 17) \\ &= n^2 - 17^2 \\ &= n^2 - 289 \end{aligned}$$

$$\left(\frac{5}{2} + z\right)^2$$

$$\left(a - \frac{7}{8}\right)^2$$

$$(z + 16)^2$$

$$(x + 6)(x - 6)$$

$$(y + 7)^2$$

$$(a - 16)^2$$

$$(n + 18)^2$$

$$(b + 4)(b - 4)$$

$$(20 + x)(20 - x)$$

$$(b + 16)(b - 16)$$

$$\begin{aligned} & \left(\frac{5}{2} + z\right)^2 \\ &= \left(\frac{5}{2}\right)^2 + 2 \times \frac{5}{2} \times z + z^2 \\ &= \frac{25}{4} + 5z + z^2 \end{aligned}$$

$$\begin{aligned} & \left(a - \frac{7}{8}\right)^2 \\ &= a^2 - 2 \times \frac{7}{8} \times a + \left(\frac{7}{8}\right)^2 \\ &= a^2 - \frac{7}{4}a + \frac{49}{64} \end{aligned}$$

$$\begin{aligned} & (z + 16)^2 \\ &= z^2 + 2 \times 16 \times z + 16^2 \\ &= z^2 + 32z + 256 \end{aligned}$$

$$\begin{aligned} & (x + 6)(x - 6) \\ &= x^2 - 6^2 \\ &= x^2 - 36 \end{aligned}$$

$$\begin{aligned} & (y + 7)^2 \\ &= y^2 + 2 \times 7 \times y + 7^2 \\ &= y^2 + 14y + 49 \end{aligned}$$

$$\begin{aligned} & (a - 16)^2 \\ &= a^2 - 2 \times 16 \times a + 16^2 \\ &= a^2 - 32a + 256 \end{aligned}$$

$$\begin{aligned} & (n + 18)^2 \\ &= n^2 + 2 \times 18 \times n + 18^2 \\ &= n^2 + 36n + 324 \end{aligned}$$

$$\begin{aligned} & (b + 4)(b - 4) \\ &= b^2 - 4^2 \\ &= b^2 - 16 \end{aligned}$$

$$\begin{aligned} & (20 + x)(20 - x) \\ &= 20^2 - x^2 \\ &= 400 - x^2 \end{aligned}$$

$$\begin{aligned} & (b + 16)(b - 16) \\ &= b^2 - 16^2 \\ &= b^2 - 256 \end{aligned}$$

$$(z + 20)^2$$

$$(20 + b)^2$$

$$(b + 1)(b - 1)$$

$$\left(z - \frac{6}{7}\right)^2$$

$$(b + 12)(b - 12)$$

$$(y + 13)^2$$

$$(z + 18)(z - 18)$$

$$(y + 16)^2$$

$$(z + 17)(z - 17)$$

$$(x + 4)(x - 4)$$

$$\begin{aligned} & (z + 20)^2 \\ &= z^2 + 2 \times 20 \times z + 20^2 \\ &= z^2 + 40z + 400 \end{aligned}$$

$$\begin{aligned} & (20 + b)^2 \\ &= 20^2 + 2 \times 20 \times b + b^2 \\ &= 400 + 40b + b^2 \end{aligned}$$

$$\begin{aligned} & (b + 1)(b - 1) \\ &= b^2 - 1^2 \\ &= b^2 - 1 \end{aligned}$$

$$\begin{aligned} & \left(z - \frac{6}{7}\right)^2 \\ &= z^2 - 2 \times \frac{6}{7} \times z + \left(\frac{6}{7}\right)^2 \\ &= z^2 - \frac{12}{7}z + \frac{36}{49} \end{aligned}$$

$$\begin{aligned} & (b + 12)(b - 12) \\ &= b^2 - 12^2 \\ &= b^2 - 144 \end{aligned}$$

$$\begin{aligned} & (y + 13)^2 \\ &= y^2 + 2 \times 13 \times y + 13^2 \\ &= y^2 + 26y + 169 \end{aligned}$$

$$\begin{aligned} & (z + 18)(z - 18) \\ &= z^2 - 18^2 \\ &= z^2 - 324 \end{aligned}$$

$$\begin{aligned} & (y + 16)^2 \\ &= y^2 + 2 \times 16 \times y + 16^2 \\ &= y^2 + 32y + 256 \end{aligned}$$

$$\begin{aligned} & (z + 17)(z - 17) \\ &= z^2 - 17^2 \\ &= z^2 - 289 \end{aligned}$$

$$\begin{aligned} & (x + 4)(x - 4) \\ &= x^2 - 4^2 \\ &= x^2 - 16 \end{aligned}$$

$$\left(n + \frac{7}{4}\right)^2$$

$$(y + 1)(y - 1)$$

$$(b + 1)^2$$

$$(c + 16)(c - 16)$$

$$(m + 5)(m - 5)$$

$$(y + 8)(y - 8)$$

$$\left(y + \frac{7}{4}\right)\left(y - \frac{7}{4}\right)$$

$$(1 + n)(1 - n)$$

$$(19 + z)(19 - z)$$

$$(b + 13)^2$$

$$\begin{aligned} & \left(n + \frac{7}{4}\right)^2 \\ &= n^2 + 2 \times \frac{7}{4} \times n + \left(\frac{7}{4}\right)^2 \\ &= n^2 + \frac{7}{2}n + \frac{49}{16} \end{aligned}$$

$$\begin{aligned} & (y + 1)(y - 1) \\ &= y^2 - 1^2 \\ &= y^2 - 1 \end{aligned}$$

$$\begin{aligned} & (b + 1)^2 \\ &= b^2 + 2 \times 1 \times b + 1^2 \\ &= b^2 + 2b + 1 \end{aligned}$$

$$\begin{aligned} & (c + 16)(c - 16) \\ &= c^2 - 16^2 \\ &= c^2 - 256 \end{aligned}$$

$$\begin{aligned} & (m + 5)(m - 5) \\ &= m^2 - 5^2 \\ &= m^2 - 25 \end{aligned}$$

$$\begin{aligned} & (y + 8)(y - 8) \\ &= y^2 - 8^2 \\ &= y^2 - 64 \end{aligned}$$

$$\begin{aligned} & \left(y + \frac{7}{4}\right)\left(y - \frac{7}{4}\right) \\ &= y^2 - \left(\frac{7}{4}\right)^2 \\ &= y^2 - \frac{49}{16} \end{aligned}$$

$$\begin{aligned} & (1 + n)(1 - n) \\ &= 1^2 - n^2 \\ &= 1 - n^2 \end{aligned}$$

$$\begin{aligned} & (19 + z)(19 - z) \\ &= 19^2 - z^2 \\ &= 361 - z^2 \end{aligned}$$

$$\begin{aligned} & (b + 13)^2 \\ &= b^2 + 2 \times 13 \times b + 13^2 \\ &= b^2 + 26b + 169 \end{aligned}$$

$$(m + 13)^2$$

$$(n + 3)^2$$

$$(n + 7)(n - 7)$$

$$(m + 7)^2$$

$$(x - 12)^2$$

$$(c + 3)(c - 3)$$

$$(c + 1)(c - 1)$$

$$(9 + n)(9 - n)$$

$$(b - 15)^2$$

$$(c - 2)^2$$

$$\begin{aligned} & (m + 13)^2 \\ &= m^2 + 2 \times 13 \times m + 13^2 \\ &= m^2 + 26m + 169 \end{aligned}$$

$$\begin{aligned} & (n + 3)^2 \\ &= n^2 + 2 \times 3 \times n + 3^2 \\ &= n^2 + 6n + 9 \end{aligned}$$

$$\begin{aligned} & (n + 7)(n - 7) \\ &= n^2 - 7^2 \\ &= n^2 - 49 \end{aligned}$$

$$\begin{aligned} & (m + 7)^2 \\ &= m^2 + 2 \times 7 \times m + 7^2 \\ &= m^2 + 14m + 49 \end{aligned}$$

$$\begin{aligned} & (x - 12)^2 \\ &= x^2 - 2 \times 12 \times x + 12^2 \\ &= x^2 - 24x + 144 \end{aligned}$$

$$\begin{aligned} & (c + 3)(c - 3) \\ &= c^2 - 3^2 \\ &= c^2 - 9 \end{aligned}$$

$$\begin{aligned} & (c + 1)(c - 1) \\ &= c^2 - 1^2 \\ &= c^2 - 1 \end{aligned}$$

$$\begin{aligned} & (9 + n)(9 - n) \\ &= 9^2 - n^2 \\ &= 81 - n^2 \end{aligned}$$

$$\begin{aligned} & (b - 15)^2 \\ &= b^2 - 2 \times 15 \times b + 15^2 \\ &= b^2 - 30b + 225 \end{aligned}$$

$$\begin{aligned} & (c - 2)^2 \\ &= c^2 - 2 \times 2 \times c + 2^2 \\ &= c^2 - 4c + 4 \end{aligned}$$

$$(20 + n)(20 - n)$$

$$\left(n + \frac{7}{3}\right)^2$$

$$(a + 5)^2$$

$$(x + 19)^2$$

$$(b + 20)(b - 20)$$

$$(16 + n)(16 - n)$$

$$(a + 14)(a - 14)$$

$$(x + 7)^2$$

$$(z + 15)(z - 15)$$

$$(15 - b)^2$$

$$\begin{aligned} & (20 + n)(20 - n) \\ &= 20^2 - n^2 \\ &= 400 - n^2 \end{aligned}$$

$$\begin{aligned} & \left(n + \frac{7}{3}\right)^2 \\ &= n^2 + 2 \times \frac{7}{3} \times n + \left(\frac{7}{3}\right)^2 \\ &= n^2 + \frac{14}{3}n + \frac{49}{9} \end{aligned}$$

$$\begin{aligned} & (a + 5)^2 \\ &= a^2 + 2 \times 5 \times a + 5^2 \\ &= a^2 + 10a + 25 \end{aligned}$$

$$\begin{aligned} & (x + 19)^2 \\ &= x^2 + 2 \times 19 \times x + 19^2 \\ &= x^2 + 38x + 361 \end{aligned}$$

$$\begin{aligned} & (b + 20)(b - 20) \\ &= b^2 - 20^2 \\ &= b^2 - 400 \end{aligned}$$

$$\begin{aligned} & (16 + n)(16 - n) \\ &= 16^2 - n^2 \\ &= 256 - n^2 \end{aligned}$$

$$\begin{aligned} & (a + 14)(a - 14) \\ &= a^2 - 14^2 \\ &= a^2 - 196 \end{aligned}$$

$$\begin{aligned} & (x + 7)^2 \\ &= x^2 + 2 \times 7 \times x + 7^2 \\ &= x^2 + 14x + 49 \end{aligned}$$

$$\begin{aligned} & (z + 15)(z - 15) \\ &= z^2 - 15^2 \\ &= z^2 - 225 \end{aligned}$$

$$\begin{aligned} & (15 - b)^2 \\ &= 15^2 - 2 \times 15 \times b + b^2 \\ &= 225 - 30b + b^2 \end{aligned}$$

$$\left(\frac{2}{7} + c\right)^2$$

$$(17 + b)(17 - b)$$

$$(17 + a)(17 - a)$$

$$(c + 10)(c - 10)$$

$$(b + 18)^2$$

$$(a + 12)(a - 12)$$

$$(n + 4)^2$$

$$(18 - y)^2$$

$$(n + 16)(n - 16)$$

$$(x + 9)^2$$

$$\begin{aligned} & \left(\frac{2}{7} + c\right)^2 \\ &= \left(\frac{2}{7}\right)^2 + 2 \times \frac{2}{7} \times c + c^2 \\ &= \frac{4}{49} + \frac{4}{7}c + c^2 \end{aligned}$$

$$\begin{aligned} & (17 + b)(17 - b) \\ &= 17^2 - b^2 \\ &= 289 - b^2 \end{aligned}$$

$$\begin{aligned} & (17 + a)(17 - a) \\ &= 17^2 - a^2 \\ &= 289 - a^2 \end{aligned}$$

$$\begin{aligned} & (c + 10)(c - 10) \\ &= c^2 - 10^2 \\ &= c^2 - 100 \end{aligned}$$

$$\begin{aligned} & (b + 18)^2 \\ &= b^2 + 2 \times 18 \times b + 18^2 \\ &= b^2 + 36b + 324 \end{aligned}$$

$$\begin{aligned} & (a + 12)(a - 12) \\ &= a^2 - 12^2 \\ &= a^2 - 144 \end{aligned}$$

$$\begin{aligned} & (n + 4)^2 \\ &= n^2 + 2 \times 4 \times n + 4^2 \\ &= n^2 + 8n + 16 \end{aligned}$$

$$\begin{aligned} & (18 - y)^2 \\ &= 18^2 - 2 \times 18 \times y + y^2 \\ &= 324 - 36y + y^2 \end{aligned}$$

$$\begin{aligned} & (n + 16)(n - 16) \\ &= n^2 - 16^2 \\ &= n^2 - 256 \end{aligned}$$

$$\begin{aligned} & (x + 9)^2 \\ &= x^2 + 2 \times 9 \times x + 9^2 \\ &= x^2 + 18x + 81 \end{aligned}$$

$$(a + 1)(a - 1)$$

$$(a + 8)(a - 8)$$

$$\left(\frac{1}{3} + b\right)\left(\frac{1}{3} - b\right)$$

$$(c - 9)^2$$

$$(c - 14)^2$$

$$(y + 9)^2$$

$$(m + 2)(m - 2)$$

$$(11 + y)(11 - y)$$

$$\left(y + \frac{1}{5}\right)^2$$

$$(a - 7)^2$$

$$\begin{aligned} & (a+1)(a-1) \\ &= a^2 - 1^2 \\ &= a^2 - 1 \end{aligned}$$

$$\begin{aligned} & (a+8)(a-8) \\ &= a^2 - 8^2 \\ &= a^2 - 64 \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{3} + b\right)\left(\frac{1}{3} - b\right) \\ &= \left(\frac{1}{3}\right)^2 - b^2 \\ &= \frac{1}{9} - b^2 \end{aligned}$$

$$\begin{aligned} & (c-9)^2 \\ &= c^2 - 2 \times 9 \times c + 9^2 \\ &= c^2 - 18c + 81 \end{aligned}$$

$$\begin{aligned} & (c-14)^2 \\ &= c^2 - 2 \times 14 \times c + 14^2 \\ &= c^2 - 28c + 196 \end{aligned}$$

$$\begin{aligned} & (y+9)^2 \\ &= y^2 + 2 \times 9 \times y + 9^2 \\ &= y^2 + 18y + 81 \end{aligned}$$

$$\begin{aligned} & (m+2)(m-2) \\ &= m^2 - 2^2 \\ &= m^2 - 4 \end{aligned}$$

$$\begin{aligned} & (11+y)(11-y) \\ &= 11^2 - y^2 \\ &= 121 - y^2 \end{aligned}$$

$$\begin{aligned} & \left(y + \frac{1}{5}\right)^2 \\ &= y^2 + 2 \times \frac{1}{5} \times y + \left(\frac{1}{5}\right)^2 \\ &= y^2 + \frac{2}{5}y + \frac{1}{25} \end{aligned}$$

$$\begin{aligned} & (a-7)^2 \\ &= a^2 - 2 \times 7 \times a + 7^2 \\ &= a^2 - 14a + 49 \end{aligned}$$

$$(n + 3)(n - 3)$$

$$(a - 6)^2$$

$$(b + 7)^2$$

$$(m + 14)(m - 14)$$

$$(12 + y)^2$$

$$(c + 9)(c - 9)$$

$$(a + 11)(a - 11)$$

$$(b - 14)^2$$

$$(c + 6)(c - 6)$$

$$(1 - b)^2$$

$$\begin{aligned} & (n+3)(n-3) \\ &= n^2 - 3^2 \\ &= n^2 - 9 \end{aligned}$$

$$\begin{aligned} & (a-6)^2 \\ &= a^2 - 2 \times 6 \times a + 6^2 \\ &= a^2 - 12a + 36 \end{aligned}$$

$$\begin{aligned} & (b+7)^2 \\ &= b^2 + 2 \times 7 \times b + 7^2 \\ &= b^2 + 14b + 49 \end{aligned}$$

$$\begin{aligned} & (m+14)(m-14) \\ &= m^2 - 14^2 \\ &= m^2 - 196 \end{aligned}$$

$$\begin{aligned} & (12+y)^2 \\ &= 12^2 + 2 \times 12 \times y + y^2 \\ &= 144 + 24y + y^2 \end{aligned}$$

$$\begin{aligned} & (c+9)(c-9) \\ &= c^2 - 9^2 \\ &= c^2 - 81 \end{aligned}$$

$$\begin{aligned} & (a+11)(a-11) \\ &= a^2 - 11^2 \\ &= a^2 - 121 \end{aligned}$$

$$\begin{aligned} & (b-14)^2 \\ &= b^2 - 2 \times 14 \times b + 14^2 \\ &= b^2 - 28b + 196 \end{aligned}$$

$$\begin{aligned} & (c+6)(c-6) \\ &= c^2 - 6^2 \\ &= c^2 - 36 \end{aligned}$$

$$\begin{aligned} & (1-b)^2 \\ &= 1^2 - 2 \times 1 \times b + b^2 \\ &= 1 - 2b + b^2 \end{aligned}$$

$$(n + 5)(n - 5)$$

$$(a + 7)^2$$

$$(m + 15)(m - 15)$$

$$(z + 4)(z - 4)$$

$$\left(\frac{1}{2} + y\right)\left(\frac{1}{2} - y\right)$$

$$(9 + a)(9 - a)$$

$$(x + 4)^2$$

$$\left(b + \frac{4}{9}\right)\left(b - \frac{4}{9}\right)$$

$$(13 - z)^2$$

$$(a + 5)(a - 5)$$

$$\begin{aligned} & (n+5)(n-5) \\ &= n^2 - 5^2 \\ &= n^2 - 25 \end{aligned}$$

$$\begin{aligned} & (a+7)^2 \\ &= a^2 + 2 \times 7 \times a + 7^2 \\ &= a^2 + 14a + 49 \end{aligned}$$

$$\begin{aligned} & (m+15)(m-15) \\ &= m^2 - 15^2 \\ &= m^2 - 225 \end{aligned}$$

$$\begin{aligned} & (z+4)(z-4) \\ &= z^2 - 4^2 \\ &= z^2 - 16 \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{2} + y\right) \left(\frac{1}{2} - y\right) \\ &= \left(\frac{1}{2}\right)^2 - y^2 \\ &= \frac{1}{4} - y^2 \end{aligned}$$

$$\begin{aligned} & (9+a)(9-a) \\ &= 9^2 - a^2 \\ &= 81 - a^2 \end{aligned}$$

$$\begin{aligned} & (x+4)^2 \\ &= x^2 + 2 \times 4 \times x + 4^2 \\ &= x^2 + 8x + 16 \end{aligned}$$

$$\begin{aligned} & \left(b + \frac{4}{9}\right) \left(b - \frac{4}{9}\right) \\ &= b^2 - \left(\frac{4}{9}\right)^2 \\ &= b^2 - \frac{16}{81} \end{aligned}$$

$$\begin{aligned} & (13-z)^2 \\ &= 13^2 - 2 \times 13 \times z + z^2 \\ &= 169 - 26z + z^2 \end{aligned}$$

$$\begin{aligned} & (a+5)(a-5) \\ &= a^2 - 5^2 \\ &= a^2 - 25 \end{aligned}$$

問題

乗法公式を使って、多項式を展開しましょう。

$$(2 + m)(2 - m)$$

$$(c - 20)^2$$

$$(x - 15)^2$$

$$(b + 4)(b - 4)$$

$$(a - 7)^2$$

$$(3 - a)^2$$

$$(z - 18)^2$$

$$\left(\frac{5}{7} + c\right)\left(\frac{5}{7} - c\right)$$

$$(a + 15)(a - 15)$$

$$(n + 13)(n - 13)$$

$$\begin{aligned} & (2+m)(2-m) \\ &= 2^2 - m^2 \\ &= 4 - m^2 \end{aligned}$$

$$\begin{aligned} & (c-20)^2 \\ &= c^2 - 2 \times 20 \times c + 20^2 \\ &= c^2 - 40c + 400 \end{aligned}$$

$$\begin{aligned} & (x-15)^2 \\ &= x^2 - 2 \times 15 \times x + 15^2 \\ &= x^2 - 30x + 225 \end{aligned}$$

$$\begin{aligned} & (b+4)(b-4) \\ &= b^2 - 4^2 \\ &= b^2 - 16 \end{aligned}$$

$$\begin{aligned} & (a-7)^2 \\ &= a^2 - 2 \times 7 \times a + 7^2 \\ &= a^2 - 14a + 49 \end{aligned}$$

$$\begin{aligned} & (3-a)^2 \\ &= 3^2 - 2 \times 3 \times a + a^2 \\ &= 9 - 6a + a^2 \end{aligned}$$

$$\begin{aligned} & (z-18)^2 \\ &= z^2 - 2 \times 18 \times z + 18^2 \\ &= z^2 - 36z + 324 \end{aligned}$$

$$\begin{aligned} & \left(\frac{5}{7} + c\right) \left(\frac{5}{7} - c\right) \\ &= \left(\frac{5}{7}\right)^2 - c^2 \\ &= \frac{25}{49} - c^2 \end{aligned}$$

$$\begin{aligned} & (a+15)(a-15) \\ &= a^2 - 15^2 \\ &= a^2 - 225 \end{aligned}$$

$$\begin{aligned} & (n+13)(n-13) \\ &= n^2 - 13^2 \\ &= n^2 - 169 \end{aligned}$$

$$(c - 17)^2$$

$$(z + 19)(z - 19)$$

$$(y - 12)^2$$

$$(14 - n)^2$$

$$(c - 13)^2$$

$$(11 + x)(11 - x)$$

$$(z + 1)^2$$

$$(b + 17)(b - 17)$$

$$(b - 18)^2$$

$$(z + 15)^2$$

$$\begin{aligned} & (c - 17)^2 \\ &= c^2 - 2 \times 17 \times c + 17^2 \\ &= c^2 - 34c + 289 \end{aligned}$$

$$\begin{aligned} & (z + 19)(z - 19) \\ &= z^2 - 19^2 \\ &= z^2 - 361 \end{aligned}$$

$$\begin{aligned} & (y - 12)^2 \\ &= y^2 - 2 \times 12 \times y + 12^2 \\ &= y^2 - 24y + 144 \end{aligned}$$

$$\begin{aligned} & (14 - n)^2 \\ &= 14^2 - 2 \times 14 \times n + n^2 \\ &= 196 - 28n + n^2 \end{aligned}$$

$$\begin{aligned} & (c - 13)^2 \\ &= c^2 - 2 \times 13 \times c + 13^2 \\ &= c^2 - 26c + 169 \end{aligned}$$

$$\begin{aligned} & (11 + x)(11 - x) \\ &= 11^2 - x^2 \\ &= 121 - x^2 \end{aligned}$$

$$\begin{aligned} & (z + 1)^2 \\ &= z^2 + 2 \times 1 \times z + 1^2 \\ &= z^2 + 2z + 1 \end{aligned}$$

$$\begin{aligned} & (b + 17)(b - 17) \\ &= b^2 - 17^2 \\ &= b^2 - 289 \end{aligned}$$

$$\begin{aligned} & (b - 18)^2 \\ &= b^2 - 2 \times 18 \times b + 18^2 \\ &= b^2 - 36b + 324 \end{aligned}$$

$$\begin{aligned} & (z + 15)^2 \\ &= z^2 + 2 \times 15 \times z + 15^2 \\ &= z^2 + 30z + 225 \end{aligned}$$

$$(20 + m)(20 - m)$$

$$(b + 8)(b - 8)$$

$$(n + 20)^2$$

$$\left(y - \frac{7}{4}\right)^2$$

$$(18 + x)(18 - x)$$

$$(n + 13)^2$$

$$(a + 9)^2$$

$$(z + 13)^2$$

$$\left(z + \frac{2}{9}\right)^2$$

$$(14 + c)(14 - c)$$

$$\begin{aligned} & (20 + m)(20 - m) \\ &= 20^2 - m^2 \\ &= 400 - m^2 \end{aligned}$$

$$\begin{aligned} & (b + 8)(b - 8) \\ &= b^2 - 8^2 \\ &= b^2 - 64 \end{aligned}$$

$$\begin{aligned} & (n + 20)^2 \\ &= n^2 + 2 \times 20 \times n + 20^2 \\ &= n^2 + 40n + 400 \end{aligned}$$

$$\begin{aligned} & \left(y - \frac{7}{4}\right)^2 \\ &= y^2 - 2 \times \frac{7}{4} \times y + \left(\frac{7}{4}\right)^2 \\ &= y^2 - \frac{7}{2}y + \frac{49}{16} \end{aligned}$$

$$\begin{aligned} & (18 + x)(18 - x) \\ &= 18^2 - x^2 \\ &= 324 - x^2 \end{aligned}$$

$$\begin{aligned} & (n + 13)^2 \\ &= n^2 + 2 \times 13 \times n + 13^2 \\ &= n^2 + 26n + 169 \end{aligned}$$

$$\begin{aligned} & (a + 9)^2 \\ &= a^2 + 2 \times 9 \times a + 9^2 \\ &= a^2 + 18a + 81 \end{aligned}$$

$$\begin{aligned} & (z + 13)^2 \\ &= z^2 + 2 \times 13 \times z + 13^2 \\ &= z^2 + 26z + 169 \end{aligned}$$

$$\begin{aligned} & \left(z + \frac{2}{9}\right)^2 \\ &= z^2 + 2 \times \frac{2}{9} \times z + \left(\frac{2}{9}\right)^2 \\ &= z^2 + \frac{4}{9}z + \frac{4}{81} \end{aligned}$$

$$\begin{aligned} & (14 + c)(14 - c) \\ &= 14^2 - c^2 \\ &= 196 - c^2 \end{aligned}$$

$$(n - 3)^2$$

$$(b - 17)^2$$

$$\left(\frac{1}{6} + m\right)^2$$

$$(b - 15)^2$$

$$(4 + a)(4 - a)$$

$$(b + 15)(b - 15)$$

$$(x - 7)^2$$

$$(c + 10)(c - 10)$$

$$(z + 16)(z - 16)$$

$$(b + 15)(b - 15)$$

$$\begin{aligned} & (n-3)^2 \\ &= n^2 - 2 \times 3 \times n + 3^2 \\ &= n^2 - 6n + 9 \end{aligned}$$

$$\begin{aligned} & (b-17)^2 \\ &= b^2 - 2 \times 17 \times b + 17^2 \\ &= b^2 - 34b + 289 \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{6} + m\right)^2 \\ &= \left(\frac{1}{6}\right)^2 + 2 \times \frac{1}{6} \times m + m^2 \\ &= \frac{1}{36} + \frac{1}{3}m + m^2 \end{aligned}$$

$$\begin{aligned} & (b-15)^2 \\ &= b^2 - 2 \times 15 \times b + 15^2 \\ &= b^2 - 30b + 225 \end{aligned}$$

$$\begin{aligned} & (4+a)(4-a) \\ &= 4^2 - a^2 \\ &= 16 - a^2 \end{aligned}$$

$$\begin{aligned} & (b+15)(b-15) \\ &= b^2 - 15^2 \\ &= b^2 - 225 \end{aligned}$$

$$\begin{aligned} & (x-7)^2 \\ &= x^2 - 2 \times 7 \times x + 7^2 \\ &= x^2 - 14x + 49 \end{aligned}$$

$$\begin{aligned} & (c+10)(c-10) \\ &= c^2 - 10^2 \\ &= c^2 - 100 \end{aligned}$$

$$\begin{aligned} & (z+16)(z-16) \\ &= z^2 - 16^2 \\ &= z^2 - 256 \end{aligned}$$

$$\begin{aligned} & (b+15)(b-15) \\ &= b^2 - 15^2 \\ &= b^2 - 225 \end{aligned}$$

$$(x + 1)(x - 1)$$

$$(a + 6)^2$$

$$(18 + x)(18 - x)$$

$$(y + 4)(y - 4)$$

$$(a + 14)(a - 14)$$

$$(20 + y)(20 - y)$$

$$(a - 7)^2$$

$$(c + 9)(c - 9)$$

$$(m + 15)(m - 15)$$

$$(b + 14)(b - 14)$$

$$\begin{aligned} & (x+1)(x-1) \\ &= x^2 - 1^2 \\ &= x^2 - 1 \end{aligned}$$

$$\begin{aligned} & (a+6)^2 \\ &= a^2 + 2 \times 6 \times a + 6^2 \\ &= a^2 + 12a + 36 \end{aligned}$$

$$\begin{aligned} & (18+x)(18-x) \\ &= 18^2 - x^2 \\ &= 324 - x^2 \end{aligned}$$

$$\begin{aligned} & (y+4)(y-4) \\ &= y^2 - 4^2 \\ &= y^2 - 16 \end{aligned}$$

$$\begin{aligned} & (a+14)(a-14) \\ &= a^2 - 14^2 \\ &= a^2 - 196 \end{aligned}$$

$$\begin{aligned} & (20+y)(20-y) \\ &= 20^2 - y^2 \\ &= 400 - y^2 \end{aligned}$$

$$\begin{aligned} & (a-7)^2 \\ &= a^2 - 2 \times 7 \times a + 7^2 \\ &= a^2 - 14a + 49 \end{aligned}$$

$$\begin{aligned} & (c+9)(c-9) \\ &= c^2 - 9^2 \\ &= c^2 - 81 \end{aligned}$$

$$\begin{aligned} & (m+15)(m-15) \\ &= m^2 - 15^2 \\ &= m^2 - 225 \end{aligned}$$

$$\begin{aligned} & (b+14)(b-14) \\ &= b^2 - 14^2 \\ &= b^2 - 196 \end{aligned}$$

$$(c + 15)^2$$

$$(z + 10)(z - 10)$$

$$(m + 4)(m - 4)$$

$$(1 + n)(1 - n)$$

$$(6 + c)(6 - c)$$

$$(z + 7)(z - 7)$$

$$(z + 8)^2$$

$$(m + 3)(m - 3)$$

$$\left(c - \frac{4}{9}\right)^2$$

$$(m - 15)^2$$

$$\begin{aligned} & (c + 15)^2 \\ &= c^2 + 2 \times 15 \times c + 15^2 \\ &= c^2 + 30c + 225 \end{aligned}$$

$$\begin{aligned} & (z + 10)(z - 10) \\ &= z^2 - 10^2 \\ &= z^2 - 100 \end{aligned}$$

$$\begin{aligned} & (m + 4)(m - 4) \\ &= m^2 - 4^2 \\ &= m^2 - 16 \end{aligned}$$

$$\begin{aligned} & (1 + n)(1 - n) \\ &= 1^2 - n^2 \\ &= 1 - n^2 \end{aligned}$$

$$\begin{aligned} & (6 + c)(6 - c) \\ &= 6^2 - c^2 \\ &= 36 - c^2 \end{aligned}$$

$$\begin{aligned} & (z + 7)(z - 7) \\ &= z^2 - 7^2 \\ &= z^2 - 49 \end{aligned}$$

$$\begin{aligned} & (z + 8)^2 \\ &= z^2 + 2 \times 8 \times z + 8^2 \\ &= z^2 + 16z + 64 \end{aligned}$$

$$\begin{aligned} & (m + 3)(m - 3) \\ &= m^2 - 3^2 \\ &= m^2 - 9 \end{aligned}$$

$$\begin{aligned} & \left(c - \frac{4}{9}\right)^2 \\ &= c^2 - 2 \times \frac{4}{9} \times c + \left(\frac{4}{9}\right)^2 \\ &= c^2 - \frac{8}{9}c + \frac{16}{81} \end{aligned}$$

$$\begin{aligned} & (m - 15)^2 \\ &= m^2 - 2 \times 15 \times m + 15^2 \\ &= m^2 - 30m + 225 \end{aligned}$$

$$(y + 9)(y - 9)$$

$$(z + 20)^2$$

$$(13 + c)(13 - c)$$

$$(a + 7)^2$$

$$(x + 15)(x - 15)$$

$$(m - 11)^2$$

$$(y + 11)(y - 11)$$

$$(c + 1)(c - 1)$$

$$(y + 14)^2$$

$$(12 + m)(12 - m)$$

$$\begin{aligned} & (y + 9)(y - 9) \\ &= y^2 - 9^2 \\ &= y^2 - 81 \end{aligned}$$

$$\begin{aligned} & (z + 20)^2 \\ &= z^2 + 2 \times 20 \times z + 20^2 \\ &= z^2 + 40z + 400 \end{aligned}$$

$$\begin{aligned} & (13 + c)(13 - c) \\ &= 13^2 - c^2 \\ &= 169 - c^2 \end{aligned}$$

$$\begin{aligned} & (a + 7)^2 \\ &= a^2 + 2 \times 7 \times a + 7^2 \\ &= a^2 + 14a + 49 \end{aligned}$$

$$\begin{aligned} & (x + 15)(x - 15) \\ &= x^2 - 15^2 \\ &= x^2 - 225 \end{aligned}$$

$$\begin{aligned} & (m - 11)^2 \\ &= m^2 - 2 \times 11 \times m + 11^2 \\ &= m^2 - 22m + 121 \end{aligned}$$

$$\begin{aligned} & (y + 11)(y - 11) \\ &= y^2 - 11^2 \\ &= y^2 - 121 \end{aligned}$$

$$\begin{aligned} & (c + 1)(c - 1) \\ &= c^2 - 1^2 \\ &= c^2 - 1 \end{aligned}$$

$$\begin{aligned} & (y + 14)^2 \\ &= y^2 + 2 \times 14 \times y + 14^2 \\ &= y^2 + 28y + 196 \end{aligned}$$

$$\begin{aligned} & (12 + m)(12 - m) \\ &= 12^2 - m^2 \\ &= 144 - m^2 \end{aligned}$$

$$(b - 16)^2$$

$$(7 + z)^2$$

$$(m + 11)(m - 11)$$

$$(14 + z)(14 - z)$$

$$(17 + x)(17 - x)$$

$$(a + 4)^2$$

$$(b + 8)^2$$

$$(x + 11)^2$$

$$(m - 5)^2$$

$$(n + 7)^2$$

$$\begin{aligned} & (b - 16)^2 \\ &= b^2 - 2 \times 16 \times b + 16^2 \\ &= b^2 - 32b + 256 \end{aligned}$$

$$\begin{aligned} & (7 + z)^2 \\ &= 7^2 + 2 \times 7 \times z + z^2 \\ &= 49 + 14z + z^2 \end{aligned}$$

$$\begin{aligned} & (m + 11)(m - 11) \\ &= m^2 - 11^2 \\ &= m^2 - 121 \end{aligned}$$

$$\begin{aligned} & (14 + z)(14 - z) \\ &= 14^2 - z^2 \\ &= 196 - z^2 \end{aligned}$$

$$\begin{aligned} & (17 + x)(17 - x) \\ &= 17^2 - x^2 \\ &= 289 - x^2 \end{aligned}$$

$$\begin{aligned} & (a + 4)^2 \\ &= a^2 + 2 \times 4 \times a + 4^2 \\ &= a^2 + 8a + 16 \end{aligned}$$

$$\begin{aligned} & (b + 8)^2 \\ &= b^2 + 2 \times 8 \times b + 8^2 \\ &= b^2 + 16b + 64 \end{aligned}$$

$$\begin{aligned} & (x + 11)^2 \\ &= x^2 + 2 \times 11 \times x + 11^2 \\ &= x^2 + 22x + 121 \end{aligned}$$

$$\begin{aligned} & (m - 5)^2 \\ &= m^2 - 2 \times 5 \times m + 5^2 \\ &= m^2 - 10m + 25 \end{aligned}$$

$$\begin{aligned} & (n + 7)^2 \\ &= n^2 + 2 \times 7 \times n + 7^2 \\ &= n^2 + 14n + 49 \end{aligned}$$

$$(n - 5)^2$$

$$(4 + a)^2$$

$$\left(n + \frac{9}{8}\right) \left(n - \frac{9}{8}\right)$$

$$(x + 16)(x - 16)$$

$$(n + 14)^2$$

$$(11 + n)(11 - n)$$

$$(a - 8)^2$$

$$(y + 16)^2$$

$$(n + 3)^2$$

$$(b + 16)(b - 16)$$

$$\begin{aligned} & (n - 5)^2 \\ &= n^2 - 2 \times 5 \times n + 5^2 \\ &= n^2 - 10n + 25 \end{aligned}$$

$$\begin{aligned} & (4 + a)^2 \\ &= 4^2 + 2 \times 4 \times a + a^2 \\ &= 16 + 8a + a^2 \end{aligned}$$

$$\begin{aligned} & \left(n + \frac{9}{8}\right) \left(n - \frac{9}{8}\right) \\ &= n^2 - \left(\frac{9}{8}\right)^2 \\ &= n^2 - \frac{81}{64} \end{aligned}$$

$$\begin{aligned} & (x + 16)(x - 16) \\ &= x^2 - 16^2 \\ &= x^2 - 256 \end{aligned}$$

$$\begin{aligned} & (n + 14)^2 \\ &= n^2 + 2 \times 14 \times n + 14^2 \\ &= n^2 + 28n + 196 \end{aligned}$$

$$\begin{aligned} & (11 + n)(11 - n) \\ &= 11^2 - n^2 \\ &= 121 - n^2 \end{aligned}$$

$$\begin{aligned} & (a - 8)^2 \\ &= a^2 - 2 \times 8 \times a + 8^2 \\ &= a^2 - 16a + 64 \end{aligned}$$

$$\begin{aligned} & (y + 16)^2 \\ &= y^2 + 2 \times 16 \times y + 16^2 \\ &= y^2 + 32y + 256 \end{aligned}$$

$$\begin{aligned} & (n + 3)^2 \\ &= n^2 + 2 \times 3 \times n + 3^2 \\ &= n^2 + 6n + 9 \end{aligned}$$

$$\begin{aligned} & (b + 16)(b - 16) \\ &= b^2 - 16^2 \\ &= b^2 - 256 \end{aligned}$$

$$\left(y + \frac{3}{7}\right)^2$$

$$(b + 3)^2$$

$$(b + 10)^2$$

$$(9 - b)^2$$

$$(b - 9)^2$$

$$(c - 11)^2$$

$$(m + 1)(m - 1)$$

$$(b - 10)^2$$

$$(16 + n)(16 - n)$$

$$(y - 8)^2$$

$$\begin{aligned} & \left(y + \frac{3}{7}\right)^2 \\ &= y^2 + 2 \times \frac{3}{7} \times y + \left(\frac{3}{7}\right)^2 \\ &= y^2 + \frac{6}{7}y + \frac{9}{49} \end{aligned}$$

$$\begin{aligned} & (b + 3)^2 \\ &= b^2 + 2 \times 3 \times b + 3^2 \\ &= b^2 + 6b + 9 \end{aligned}$$

$$\begin{aligned} & (b + 10)^2 \\ &= b^2 + 2 \times 10 \times b + 10^2 \\ &= b^2 + 20b + 100 \end{aligned}$$

$$\begin{aligned} & (9 - b)^2 \\ &= 9^2 - 2 \times 9 \times b + b^2 \\ &= 81 - 18b + b^2 \end{aligned}$$

$$\begin{aligned} & (b - 9)^2 \\ &= b^2 - 2 \times 9 \times b + 9^2 \\ &= b^2 - 18b + 81 \end{aligned}$$

$$\begin{aligned} & (c - 11)^2 \\ &= c^2 - 2 \times 11 \times c + 11^2 \\ &= c^2 - 22c + 121 \end{aligned}$$

$$\begin{aligned} & (m + 1)(m - 1) \\ &= m^2 - 1^2 \\ &= m^2 - 1 \end{aligned}$$

$$\begin{aligned} & (b - 10)^2 \\ &= b^2 - 2 \times 10 \times b + 10^2 \\ &= b^2 - 20b + 100 \end{aligned}$$

$$\begin{aligned} & (16 + n)(16 - n) \\ &= 16^2 - n^2 \\ &= 256 - n^2 \end{aligned}$$

$$\begin{aligned} & (y - 8)^2 \\ &= y^2 - 2 \times 8 \times y + 8^2 \\ &= y^2 - 16y + 64 \end{aligned}$$