

82

乗法公式

年 組 番 名前

● 例 題 ●

次の式を展開しなさい。

$$\begin{aligned}
 (1) & (x+2)(x+4) \\
 & = x^2 + \underbrace{(+2)}_{\text{2つの数をたす}} \underbrace{(+4)}_{\text{2つの数をかける}} x + 2 \times 4 \\
 & = \underline{x^2 + 6x + 8} \quad \rightarrow 8 \text{ 1へ}
 \end{aligned}$$

問1 次の式を展開しなさい。

$$\begin{aligned}
 (1) & (x+2)(x+3) \\
 & = x^2 + 5x + 6
 \end{aligned}$$

答. $x^2 + 5x + 6$

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

答. $x^2 + 8x + 15$

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

答. $x^2 + 11x + 28$

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

答. $x^2 + 2x - 15$

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

答. $x^2 - 5x - 24$

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

答. $x^2 + 3x - 54$

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

答. $x^2 - 4x - 5$

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

答. $x^2 - 7x + 10$

$$\begin{aligned}
 (9) & (x-7)(x-8) \\
 & = x^2 - 15x + 56
 \end{aligned}$$

答. $x^2 - 15x + 56$

$$\begin{aligned}
 (10) & (a+5)(a+4) \\
 & = a^2 + 9a + 20
 \end{aligned}$$

答. $a^2 + 9a + 20$

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

答. $b^2 - b - 42$

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

答. $y^2 + 2y - 63$

$$\begin{aligned}
 (13) & (p-4)(p-15) \\
 & = p^2 - 19p + 60
 \end{aligned}$$

答. $p^2 - 19p + 60$

$$\begin{aligned}
 (14) & (x + \frac{1}{4})(x + \frac{3}{4}) \\
 & = x^2 + x + \frac{3}{16}
 \end{aligned}$$

答. $x^2 + x + \frac{3}{16}$

$$\begin{aligned}
 (15) & (x - \frac{3}{4})(x + \frac{2}{3}) \\
 & = x^2 - \frac{1}{12}x - \frac{1}{2}
 \end{aligned}$$

答. $x^2 - \frac{1}{12}x - \frac{1}{2}$