

乗法の公式の練習 (1)

学習日 月 日

年 組 番 氏名

(1) 次の式を展開しなさい。

① $(x+3)(x-2)$

② $(x+4)^2$

③ $(x+8)(x-7)$

④ $(x+1)(x-1)$

⑤ $(x-6)^2$

⑥ $(x-4)(x+7)$

⑦ $(x+9)(x+1)$

⑧ $(x-3)(x+3)$

⑨ $(x-2)^2$

⑩ $(x+6)(x+8)$

⑪ $(x+6)(x+7)$

⑫ $(x+9)^2$

⑬ $(x-4)(x-8)$

⑭ $(x+7)(x-7)$

(2) 次の式を展開しなさい。

① $(x-2y)(x-6y)$

② $(x-3y)^2$

③ $(x+7y)(x-7y)$

④ $(x+5y)(x+9y)$

⑤ $(x+2y)(x-6y)$

⑥ $(x+2y)(x-2y)$

⑦ $(x+2y)^2$

⑧ $(x-7y)(x+7y)$

⑨ $(x-3y)(x+4y)$

⑩ $(x-9y)^2$

(3) 次の式を展開しなさい。

① $(xy-6)(xy+1)$

② $(xy-2a)(xy+2a)$

③ $(xy+5a)(xy+8a)$

④ $(xy+7a)^2$

乗法の公式の練習 (1)

学習日 月 日

年 組 番 氏名

(1) 次の式を展開しなさい。

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

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

$$\begin{aligned} \textcircled{3} (x+8)(x-7) \\ = x^2 + x - 56 \end{aligned}$$

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

$$\begin{aligned} \textcircled{5} (x-6)^2 \\ = x^2 - 12x + 36 \end{aligned}$$

$$\begin{aligned} \textcircled{6} (x-4)(x+7) \\ = x^2 + 3x - 28 \end{aligned}$$

$$\begin{aligned} \textcircled{7} (x+9)(x+1) \\ = x^2 + 10x + 9 \end{aligned}$$

$$\begin{aligned} \textcircled{8} (x-3)(x+3) \\ = x^2 - 9 \end{aligned}$$

$$\begin{aligned} \textcircled{9} (x-2)^2 \\ = x^2 - 4x + 4 \end{aligned}$$

$$\begin{aligned} \textcircled{10} (x+6)(x+8) \\ = x^2 + 14x + 48 \end{aligned}$$

$$\begin{aligned} \textcircled{11} (x+6)(x+7) \\ = x^2 + 13x + 42 \end{aligned}$$

$$\begin{aligned} \textcircled{12} (x+9)^2 \\ = x^2 + 18x + 81 \end{aligned}$$

$$\begin{aligned} \textcircled{13} (x-4)(x-8) \\ = x^2 - 12x + 32 \end{aligned}$$

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

(2) 次の式を展開しなさい。

$$\begin{aligned} \textcircled{1} (x-2y)(x-6y) \\ = x^2 - 8xy + 12y^2 \end{aligned}$$

$$\begin{aligned} \textcircled{2} (x-3y)^2 \\ = x^2 - 6xy + 9y^2 \end{aligned}$$

$$\begin{aligned} \textcircled{3} (x+7y)(x-7y) \\ = x^2 - 49y^2 \end{aligned}$$

$$\begin{aligned} \textcircled{4} (x+5y)(x+9y) \\ = x^2 + 14xy + 45y^2 \end{aligned}$$

$$\begin{aligned} \textcircled{5} (x+2y)(x-6y) \\ = x^2 - 4xy - 12y^2 \end{aligned}$$

$$\begin{aligned} \textcircled{6} (x+2y)(x-2y) \\ = x^2 - 4y^2 \end{aligned}$$

$$\begin{aligned} \textcircled{7} (x+2y)^2 \\ = x^2 + 4xy + 4y^2 \end{aligned}$$

$$\begin{aligned} \textcircled{8} (x-7y)(x+7y) \\ = x^2 - 49y^2 \end{aligned}$$

$$\begin{aligned} \textcircled{9} (x-3y)(x+4y) \\ = x^2 + xy - 12y^2 \end{aligned}$$

$$\begin{aligned} \textcircled{10} (x-9y)^2 \\ = x^2 - 18xy + 81y^2 \end{aligned}$$

(3) 次の式を展開しなさい。

$$\begin{aligned} \textcircled{1} (xy-6)(xy+1) \\ = x^2y^2 - 5xy - 6 \end{aligned}$$

$$\begin{aligned} \textcircled{2} (xy-2a)(xy+2a) \\ = x^2y^2 - 4a^2 \end{aligned}$$

$$\begin{aligned} \textcircled{3} (xy+5a)(xy+8a) \\ = x^2y^2 + 13axy + 40a^2 \end{aligned}$$

$$\begin{aligned} \textcircled{4} (xy+7a)^2 \\ = x^2y^2 + 14axy + 49a^2 \end{aligned}$$