

■ 次の式の空欄に正しい数字をあてはめて、整数の平方の差を求めなさい。

① $49^2 - 41^2$

$$49^2 - 41^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

② $78^2 - 18^2$

$$78^2 - 18^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

③ $34^2 - 26^2$

$$34^2 - 26^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

④ $18^2 - 12^2$

$$18^2 - 12^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑤ $41^2 - 31^2$

$$41^2 - 31^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑥ $46^2 - 16^2$

$$46^2 - 16^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑦ $62^2 - 12^2$

$$62^2 - 12^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑧ $67^2 - 33^2$

$$67^2 - 33^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑨ $67^2 - 27^2$

$$67^2 - 27^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑩ $34^2 - 14^2$

$$34^2 - 14^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

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① $49^2 - 41^2$

$$\begin{aligned} 49^2 - 41^2 &= \left(\boxed{49} + \boxed{41} \right) \left(\boxed{49} - \boxed{41} \right) \\ &= \boxed{90} \times \boxed{8} \\ &= \boxed{720} \end{aligned}$$

② $78^2 - 18^2$

$$\begin{aligned} 78^2 - 18^2 &= \left(\boxed{78} + \boxed{18} \right) \left(\boxed{78} - \boxed{18} \right) \\ &= \boxed{96} \times \boxed{60} \\ &= \boxed{5760} \end{aligned}$$

③ $34^2 - 26^2$

$$\begin{aligned} 34^2 - 26^2 &= \left(\boxed{34} + \boxed{26} \right) \left(\boxed{34} - \boxed{26} \right) \\ &= \boxed{60} \times \boxed{8} \\ &= \boxed{480} \end{aligned}$$

④ $18^2 - 12^2$

$$\begin{aligned} 18^2 - 12^2 &= \left(\boxed{18} + \boxed{12} \right) \left(\boxed{18} - \boxed{12} \right) \\ &= \boxed{30} \times \boxed{6} \\ &= \boxed{180} \end{aligned}$$

⑤ $41^2 - 31^2$

$$\begin{aligned} 41^2 - 31^2 &= \left(\boxed{41} + \boxed{31} \right) \left(\boxed{41} - \boxed{31} \right) \\ &= \boxed{72} \times \boxed{10} \\ &= \boxed{720} \end{aligned}$$

⑥ $46^2 - 16^2$

$$\begin{aligned} 46^2 - 16^2 &= \left(\boxed{46} + \boxed{16} \right) \left(\boxed{46} - \boxed{16} \right) \\ &= \boxed{62} \times \boxed{30} \\ &= \boxed{1860} \end{aligned}$$

⑦ $62^2 - 12^2$

$$\begin{aligned} 62^2 - 12^2 &= \left(\boxed{62} + \boxed{12} \right) \left(\boxed{62} - \boxed{12} \right) \\ &= \boxed{74} \times \boxed{50} \\ &= \boxed{3700} \end{aligned}$$

⑧ $67^2 - 33^2$

$$\begin{aligned} 67^2 - 33^2 &= \left(\boxed{67} + \boxed{33} \right) \left(\boxed{67} - \boxed{33} \right) \\ &= \boxed{100} \times \boxed{34} \\ &= \boxed{3400} \end{aligned}$$

⑨ $67^2 - 27^2$

$$\begin{aligned} 67^2 - 27^2 &= \left(\boxed{67} + \boxed{27} \right) \left(\boxed{67} - \boxed{27} \right) \\ &= \boxed{94} \times \boxed{40} \\ &= \boxed{3760} \end{aligned}$$

⑩ $34^2 - 14^2$

$$\begin{aligned} 34^2 - 14^2 &= \left(\boxed{34} + \boxed{14} \right) \left(\boxed{34} - \boxed{14} \right) \\ &= \boxed{48} \times \boxed{20} \\ &= \boxed{960} \end{aligned}$$