

■ 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 $57^2 - 37^2$

$$57^2 - 37^2 = (\square + \square)(\square - \square)$$

$$= \square \times \square$$

$$= \square$$

② $18^2 - 12^2$

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

$$= \square \times \square$$

$$= \square$$

③ $39^2 - 11^2$

$$39^2 - 11^2 = (\square + \square)(\square - \square)$$

$$= \square \times \square$$

$$= \square$$

④ $36^2 - 34^2$

$$36^2 - 34^2 = (\square + \square)(\square - \square)$$

$$= \square \times \square$$

$$= \square$$

⑤ $62^2 - 12^2$

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

$$= \square \times \square$$

$$= \square$$

⑥ $54^2 - 14^2$

$$54^2 - 14^2 = (\square + \square)(\square - \square)$$

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⑦ $62^2 - 38^2$

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⑧ $66^2 - 14^2$

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$$= \square$$

⑨ $46^2 - 26^2$

$$46^2 - 26^2 = (\square + \square)(\square - \square)$$

$$= \square \times \square$$

$$= \square$$

⑩ $78^2 - 18^2$

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

$$= \square \times \square$$

$$= \square$$

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① $57^2 - 37^2$

$$\begin{aligned} 57^2 - 37^2 &= \left(\boxed{57} + \boxed{37} \right) \left(\boxed{57} - \boxed{37} \right) \\ &= \boxed{94} \times \boxed{20} \\ &= \boxed{1880} \end{aligned}$$

② $18^2 - 12^2$

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

③ $39^2 - 11^2$

$$\begin{aligned} 39^2 - 11^2 &= \left(\boxed{39} + \boxed{11} \right) \left(\boxed{39} - \boxed{11} \right) \\ &= \boxed{50} \times \boxed{28} \\ &= \boxed{1400} \end{aligned}$$

④ $36^2 - 34^2$

$$\begin{aligned} 36^2 - 34^2 &= \left(\boxed{36} + \boxed{34} \right) \left(\boxed{36} - \boxed{34} \right) \\ &= \boxed{70} \times \boxed{2} \\ &= \boxed{140} \end{aligned}$$

⑤ $62^2 - 12^2$

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

⑥ $54^2 - 14^2$

$$\begin{aligned} 54^2 - 14^2 &= \left(\boxed{54} + \boxed{14} \right) \left(\boxed{54} - \boxed{14} \right) \\ &= \boxed{68} \times \boxed{40} \\ &= \boxed{2720} \end{aligned}$$

⑦ $62^2 - 38^2$

$$\begin{aligned} 62^2 - 38^2 &= \left(\boxed{62} + \boxed{38} \right) \left(\boxed{62} - \boxed{38} \right) \\ &= \boxed{100} \times \boxed{24} \\ &= \boxed{2400} \end{aligned}$$

⑧ $66^2 - 14^2$

$$\begin{aligned} 66^2 - 14^2 &= \left(\boxed{66} + \boxed{14} \right) \left(\boxed{66} - \boxed{14} \right) \\ &= \boxed{80} \times \boxed{52} \\ &= \boxed{4160} \end{aligned}$$

⑨ $46^2 - 26^2$

$$\begin{aligned} 46^2 - 26^2 &= \left(\boxed{46} + \boxed{26} \right) \left(\boxed{46} - \boxed{26} \right) \\ &= \boxed{72} \times \boxed{20} \\ &= \boxed{1440} \end{aligned}$$

⑩ $78^2 - 18^2$

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