

■ 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  $67^2 - 33^2$

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

$$= \square \times \square$$

$$= \square$$

②  $42^2 - 28^2$

$$42^2 - 28^2 = (\square + \square)(\square - \square)$$

$$= \square \times \square$$

$$= \square$$

③  $61^2 - 11^2$

$$61^2 - 11^2 = (\square + \square)(\square - \square)$$

$$= \square \times \square$$

$$= \square$$

④  $34^2 - 24^2$

$$34^2 - 24^2 = (\square + \square)(\square - \square)$$

$$= \square \times \square$$

$$= \square$$

⑤  $36^2 - 34^2$

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

$$= \square \times \square$$

$$= \square$$

⑥  $77^2 - 17^2$

$$77^2 - 17^2 = (\square + \square)(\square - \square)$$

$$= \square \times \square$$

$$= \square$$

⑦  $58^2 - 38^2$

$$58^2 - 38^2 = (\square + \square)(\square - \square)$$

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⑧  $74^2 - 16^2$

$$74^2 - 16^2 = (\square + \square)(\square - \square)$$

$$= \square \times \square$$

$$= \square$$

⑨  $43^2 - 33^2$

$$43^2 - 33^2 = (\square + \square)(\square - \square)$$

$$= \square \times \square$$

$$= \square$$

⑩  $42^2 - 12^2$

$$42^2 - 12^2 = (\square + \square)(\square - \square)$$

$$= \square \times \square$$

$$= \square$$

■ 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  $67^2 - 33^2$

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

②  $42^2 - 28^2$

$$\begin{aligned} 42^2 - 28^2 &= \left( \boxed{42} + \boxed{28} \right) \left( \boxed{42} - \boxed{28} \right) \\ &= \boxed{70} \times \boxed{14} \\ &= \boxed{980} \end{aligned}$$

③  $61^2 - 11^2$

$$\begin{aligned} 61^2 - 11^2 &= \left( \boxed{61} + \boxed{11} \right) \left( \boxed{61} - \boxed{11} \right) \\ &= \boxed{72} \times \boxed{50} \\ &= \boxed{3600} \end{aligned}$$

④  $34^2 - 24^2$

$$\begin{aligned} 34^2 - 24^2 &= \left( \boxed{34} + \boxed{24} \right) \left( \boxed{34} - \boxed{24} \right) \\ &= \boxed{58} \times \boxed{10} \\ &= \boxed{580} \end{aligned}$$

⑤  $36^2 - 34^2$

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

⑥  $77^2 - 17^2$

$$\begin{aligned} 77^2 - 17^2 &= \left( \boxed{77} + \boxed{17} \right) \left( \boxed{77} - \boxed{17} \right) \\ &= \boxed{94} \times \boxed{60} \\ &= \boxed{5640} \end{aligned}$$

⑦  $58^2 - 38^2$

$$\begin{aligned} 58^2 - 38^2 &= \left( \boxed{58} + \boxed{38} \right) \left( \boxed{58} - \boxed{38} \right) \\ &= \boxed{96} \times \boxed{20} \\ &= \boxed{1920} \end{aligned}$$

⑧  $74^2 - 16^2$

$$\begin{aligned} 74^2 - 16^2 &= \left( \boxed{74} + \boxed{16} \right) \left( \boxed{74} - \boxed{16} \right) \\ &= \boxed{90} \times \boxed{58} \\ &= \boxed{5220} \end{aligned}$$

⑨  $43^2 - 33^2$

$$\begin{aligned} 43^2 - 33^2 &= \left( \boxed{43} + \boxed{33} \right) \left( \boxed{43} - \boxed{33} \right) \\ &= \boxed{76} \times \boxed{10} \\ &= \boxed{760} \end{aligned}$$

⑩  $42^2 - 12^2$

$$\begin{aligned} 42^2 - 12^2 &= \left( \boxed{42} + \boxed{12} \right) \left( \boxed{42} - \boxed{12} \right) \\ &= \boxed{54} \times \boxed{30} \\ &= \boxed{1620} \end{aligned}$$