

■ 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 $47^2 - 43^2$

$$47^2 - 43^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

② $53^2 - 37^2$

$$53^2 - 37^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

③ $51^2 - 19^2$

$$51^2 - 19^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

④ $69^2 - 31^2$

$$69^2 - 31^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑤ $28^2 - 18^2$

$$28^2 - 18^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑥ $71^2 - 11^2$

$$71^2 - 11^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑦ $33^2 - 23^2$

$$33^2 - 23^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑧ $26^2 - 24^2$

$$26^2 - 24^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑨ $44^2 - 24^2$

$$44^2 - 24^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑩ $81^2 - 19^2$

$$81^2 - 19^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

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① $47^2 - 43^2$

$$\begin{aligned} 47^2 - 43^2 &= \left(\boxed{47} + \boxed{43} \right) \left(\boxed{47} - \boxed{43} \right) \\ &= \boxed{90} \times \boxed{4} \\ &= \boxed{360} \end{aligned}$$

② $53^2 - 37^2$

$$\begin{aligned} 53^2 - 37^2 &= \left(\boxed{53} + \boxed{37} \right) \left(\boxed{53} - \boxed{37} \right) \\ &= \boxed{90} \times \boxed{16} \\ &= \boxed{1440} \end{aligned}$$

③ $51^2 - 19^2$

$$\begin{aligned} 51^2 - 19^2 &= \left(\boxed{51} + \boxed{19} \right) \left(\boxed{51} - \boxed{19} \right) \\ &= \boxed{70} \times \boxed{32} \\ &= \boxed{2240} \end{aligned}$$

④ $69^2 - 31^2$

$$\begin{aligned} 69^2 - 31^2 &= \left(\boxed{69} + \boxed{31} \right) \left(\boxed{69} - \boxed{31} \right) \\ &= \boxed{100} \times \boxed{38} \\ &= \boxed{3800} \end{aligned}$$

⑤ $28^2 - 18^2$

$$\begin{aligned} 28^2 - 18^2 &= \left(\boxed{28} + \boxed{18} \right) \left(\boxed{28} - \boxed{18} \right) \\ &= \boxed{46} \times \boxed{10} \\ &= \boxed{460} \end{aligned}$$

⑥ $71^2 - 11^2$

$$\begin{aligned} 71^2 - 11^2 &= \left(\boxed{71} + \boxed{11} \right) \left(\boxed{71} - \boxed{11} \right) \\ &= \boxed{82} \times \boxed{60} \\ &= \boxed{4920} \end{aligned}$$

⑦ $33^2 - 23^2$

$$\begin{aligned} 33^2 - 23^2 &= \left(\boxed{33} + \boxed{23} \right) \left(\boxed{33} - \boxed{23} \right) \\ &= \boxed{56} \times \boxed{10} \\ &= \boxed{560} \end{aligned}$$

⑧ $26^2 - 24^2$

$$\begin{aligned} 26^2 - 24^2 &= \left(\boxed{26} + \boxed{24} \right) \left(\boxed{26} - \boxed{24} \right) \\ &= \boxed{50} \times \boxed{2} \\ &= \boxed{100} \end{aligned}$$

⑨ $44^2 - 24^2$

$$\begin{aligned} 44^2 - 24^2 &= \left(\boxed{44} + \boxed{24} \right) \left(\boxed{44} - \boxed{24} \right) \\ &= \boxed{68} \times \boxed{20} \\ &= \boxed{1360} \end{aligned}$$

⑩ $81^2 - 19^2$

$$\begin{aligned} 81^2 - 19^2 &= \left(\boxed{81} + \boxed{19} \right) \left(\boxed{81} - \boxed{19} \right) \\ &= \boxed{100} \times \boxed{62} \\ &= \boxed{6200} \end{aligned}$$