

# 式の計算の利用

年 組 名前

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■ 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  $39^2 - 29^2$

$$39^2 - 29^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

②  $24^2 - 14^2$

$$24^2 - 14^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

③  $49^2 - 31^2$

$$49^2 - 31^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

④  $52^2 - 38^2$

$$52^2 - 38^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑤  $44^2 - 16^2$

$$44^2 - 16^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑥  $51^2 - 11^2$

$$51^2 - 11^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑦  $23^2 - 17^2$

$$23^2 - 17^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑧  $48^2 - 42^2$

$$48^2 - 42^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑨  $31^2 - 29^2$

$$31^2 - 29^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

⑩  $19^2 - 11^2$

$$19^2 - 11^2 = (\quad + \quad)(\quad - \quad)$$

$$= \quad \times \quad$$

$$= \quad$$

■ 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  $39^2 - 29^2$

$$\begin{aligned} 39^2 - 29^2 &= \left( \boxed{39} + \boxed{29} \right) \left( \boxed{39} - \boxed{29} \right) \\ &= \boxed{68} \times \boxed{10} \\ &= \boxed{680} \end{aligned}$$

②  $24^2 - 14^2$

$$\begin{aligned} 24^2 - 14^2 &= \left( \boxed{24} + \boxed{14} \right) \left( \boxed{24} - \boxed{14} \right) \\ &= \boxed{38} \times \boxed{10} \\ &= \boxed{380} \end{aligned}$$

③  $49^2 - 31^2$

$$\begin{aligned} 49^2 - 31^2 &= \left( \boxed{49} + \boxed{31} \right) \left( \boxed{49} - \boxed{31} \right) \\ &= \boxed{80} \times \boxed{18} \\ &= \boxed{1440} \end{aligned}$$

④  $52^2 - 38^2$

$$\begin{aligned} 52^2 - 38^2 &= \left( \boxed{52} + \boxed{38} \right) \left( \boxed{52} - \boxed{38} \right) \\ &= \boxed{90} \times \boxed{14} \\ &= \boxed{1260} \end{aligned}$$

⑤  $44^2 - 16^2$

$$\begin{aligned} 44^2 - 16^2 &= \left( \boxed{44} + \boxed{16} \right) \left( \boxed{44} - \boxed{16} \right) \\ &= \boxed{60} \times \boxed{28} \\ &= \boxed{1680} \end{aligned}$$

⑥  $51^2 - 11^2$

$$\begin{aligned} 51^2 - 11^2 &= \left( \boxed{51} + \boxed{11} \right) \left( \boxed{51} - \boxed{11} \right) \\ &= \boxed{62} \times \boxed{40} \\ &= \boxed{2480} \end{aligned}$$

⑦  $23^2 - 17^2$

$$\begin{aligned} 23^2 - 17^2 &= \left( \boxed{23} + \boxed{17} \right) \left( \boxed{23} - \boxed{17} \right) \\ &= \boxed{40} \times \boxed{6} \\ &= \boxed{240} \end{aligned}$$

⑧  $48^2 - 42^2$

$$\begin{aligned} 48^2 - 42^2 &= \left( \boxed{48} + \boxed{42} \right) \left( \boxed{48} - \boxed{42} \right) \\ &= \boxed{90} \times \boxed{6} \\ &= \boxed{540} \end{aligned}$$

⑨  $31^2 - 29^2$

$$\begin{aligned} 31^2 - 29^2 &= \left( \boxed{31} + \boxed{29} \right) \left( \boxed{31} - \boxed{29} \right) \\ &= \boxed{60} \times \boxed{2} \\ &= \boxed{120} \end{aligned}$$

⑩  $19^2 - 11^2$

$$\begin{aligned} 19^2 - 11^2 &= \left( \boxed{19} + \boxed{11} \right) \left( \boxed{19} - \boxed{11} \right) \\ &= \boxed{30} \times \boxed{8} \\ &= \boxed{240} \end{aligned}$$