

■ 次の式の値を求めなさい。

① $a = -5, b = 1$ のとき
 $-2(4ab + 1) - (-5ab + 1)$

② $a = 2, b = 3$ のとき
 $-ab \times (-7b)$

③ $a = -1, b = -5$ のとき
 $-32ab^3 \div 8b^2$

④ $a = 4, b = -2$ のとき
 $-(5a + 6b^2) + 4(a + 2b^2)$

⑤ $a = -4, b = -1$ のとき
 $-6a \times (-b) \times b$

⑥ $a = 5, b = -4$ のとき
 $(a + 6b) + 2(-a - 2b)$

⑦ $x = -3, y = 4$ のとき
 $-4x^2y^3 \div (-xy^2)$

⑧ $a = -4, b = 2$ のとき
 $2a^3b^2 \div (-2a^2b)$

⑨ $a = -2, b = 4$ のとき
 $-2a \times a \times 4b$

⑩ $x = -3, y = -2$ のとき
 $-3(3xy - 1) - (-5xy + 4)$

⑪ $x = -4, y = -3$ のとき
 $-5y \times xy$

⑫ $a = 4, b = 2$ のとき
 $a \times 9ab$

⑬ $x = -3, y = 1$ のとき
 $4x \times y$

⑭ $a = 2, b = -2$ のとき
 $-10a^3b \div (-5a)$

⑮ $x = 4, y = 3$ のとき
 $-18xy^2 \div 6y$

⑯ $a = 3, b = -1$ のとき
 $9ab^3 \div 9b$

⑰ $x = 1, y = -1$ のとき
 $-6(6x - y) - 5(-6x + y)$

⑱ $a = 2, b = -5$ のとき
 $2(-3a^2 + 4b) - (-5a^2 + 2b)$

■ 次の式の値を求めなさい。

$$\begin{aligned} \textcircled{1} \quad & a=-5, b=1 \text{ のとき} \\ & -2(4ab+1)-(-5ab+1) \\ & = -3ab-3 \\ & = 15-3 \end{aligned}$$

12

$$\begin{aligned} \textcircled{2} \quad & a=2, b=3 \text{ のとき} \\ & -ab \times (-7b) \\ & = 7ab^2 \end{aligned}$$

126

$$\begin{aligned} \textcircled{3} \quad & a=-1, b=-5 \text{ のとき} \\ & -32ab^3 \div 8b^2 \\ & = -4ab \end{aligned}$$

-20

$$\begin{aligned} \textcircled{4} \quad & a=4, b=-2 \text{ のとき} \\ & -(5a+6b^2)+4(a+2b^2) \\ & = -a+2b^2 \\ & = -4+8 \end{aligned}$$

4

$$\begin{aligned} \textcircled{5} \quad & a=-4, b=-1 \text{ のとき} \\ & -6a \times (-b) \times b \\ & = 6ab^2 \end{aligned}$$

-24

$$\begin{aligned} \textcircled{6} \quad & a=5, b=-4 \text{ のとき} \\ & (a+6b)+2(-a-2b) \\ & = -a+2b \\ & = -5-8 \end{aligned}$$

-13

$$\begin{aligned} \textcircled{7} \quad & x=-3, y=4 \text{ のとき} \\ & -4x^2y^3 \div (-xy^2) \\ & = 4xy \end{aligned}$$

-48

$$\begin{aligned} \textcircled{8} \quad & a=-4, b=2 \text{ のとき} \\ & 2a^3b^2 \div (-2a^2b) \\ & = -ab \end{aligned}$$

8

$$\begin{aligned} \textcircled{9} \quad & a=-2, b=4 \text{ のとき} \\ & -2a \times a \times 4b \\ & = -8a^2b \end{aligned}$$

-128

$$\begin{aligned} \textcircled{10} \quad & x=-3, y=-2 \text{ のとき} \\ & -3(3xy-1)-(-5xy+4) \\ & = -4xy-1 \\ & = -24-1 \end{aligned}$$

-25

$$\begin{aligned} \textcircled{11} \quad & x=-4, y=-3 \text{ のとき} \\ & -5y \times xy \\ & = -5xy^2 \end{aligned}$$

180

$$\begin{aligned} \textcircled{12} \quad & a=4, b=2 \text{ のとき} \\ & a \times 9ab \\ & = 9a^2b \end{aligned}$$

288

$$\begin{aligned} \textcircled{13} \quad & x=-3, y=1 \text{ のとき} \\ & 4x \times y \\ & = 4xy \end{aligned}$$

-12

$$\begin{aligned} \textcircled{14} \quad & a=2, b=-2 \text{ のとき} \\ & -10a^3b \div (-5a) \\ & = 2a^2b \end{aligned}$$

-16

$$\begin{aligned} \textcircled{15} \quad & x=4, y=3 \text{ のとき} \\ & -18xy^2 \div 6y \\ & = -3xy \end{aligned}$$

-36

$$\begin{aligned} \textcircled{16} \quad & a=3, b=-1 \text{ のとき} \\ & 9ab^3 \div 9b \\ & = ab^2 \end{aligned}$$

3

$$\begin{aligned} \textcircled{17} \quad & x=1, y=-1 \text{ のとき} \\ & -6(6x-y)-5(-6x+y) \\ & = -6x+y \\ & = -6-1 \end{aligned}$$

-7

$$\begin{aligned} \textcircled{18} \quad & a=2, b=-5 \text{ のとき} \\ & 2(-3a^2+4b)-(-5a^2+2b) \\ & = -a^2+6b \\ & = -4-30 \end{aligned}$$

-34