

次の式の値を求めなさい。

(1) $x=-1, y=2$ のとき, $(4x+2y)-(7x-y)$ の値

答

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

答

(3) $x=-4, y=2$ のとき, $2(2x-y)-(5x+3y)$ の値

答

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

答

(5) $x=-2, y=5$ のとき, $9x^3y^2 \div 3xy$ の値

答

(6) $a=3, b=\frac{1}{2}$ のとき, $2(3a-5b)-3(a-2b)$ の値

答

(7) $x=3, y=0.5$ のとき, $(7x-2y)-2(3x+y)$ の値

答

解答 次の式の値を求めなさい。

(1) $x=-1$, $y=2$ のとき, $(4x+2y)-(7x-y)$ の値

$$\begin{aligned} & \star (4x+2y)-(7x-y) \\ & = 4x+2y-7x+y \\ & = -3x+3y \\ & \\ & = -3 \times (-1) + 3 \times 2 \\ & = 3+6 \\ & = 9 \end{aligned}$$

答 9

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

$$\begin{aligned} & \star 4(a-b)-5(a+3b) \\ & = 4a-4b-5a-15b \\ & = -a-19b \\ & \\ & = -4-19 \times (-2) \\ & = -4+38 \\ & = 34 \end{aligned}$$

答 34

(3) $x=-4$, $y=2$ のとき, $2(2x-y)-(5x+3y)$ の値

$$\begin{aligned} & \star 2(2x-y)-(5x+3y) \\ & = 4x-2y-5x-3y \\ & = -x-5y \\ & \\ & = -(-4)-5 \times 2 \\ & = 4-10 \\ & = -6 \end{aligned}$$

答 -6

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

$$\begin{aligned} & \star 8a^3b^2 \div 4a^2b \\ & = \frac{8a^3b^2}{4a^2b} \\ & = 2ab \\ & \\ & = 2 \times 2 \times (-3) \\ & = -12 \end{aligned}$$

答 -12

(5) $x=-2$, $y=5$ のとき, $9x^3y^2 \div 3xy$ の値

$$\begin{aligned} & \star 9x^3y^2 \div 3xy \\ & = \frac{9x^3y^2}{3xy} \\ & = 3x^2y \end{aligned}$$

$$\begin{aligned} & = 3 \times (-2)^2 \times 5 \\ & = 3 \times 4 \times 5 \\ & = 60 \end{aligned}$$

答 60

(6) $a=3$, $b=\frac{1}{2}$ のとき, $2(3a-5b)-3(a-2b)$ の値

$$\begin{aligned} & \star 2(3a-5b)-3(a-2b) \\ & = 6a-10b-3a+6b \\ & = 3a-4b \end{aligned}$$

$$\begin{aligned} & = 3 \times 3 - 4 \times \frac{1}{2} \\ & = 9-2 \\ & = 7 \end{aligned}$$

答 7

(7) $x=3$, $y=0.5$ のとき, $(7x-2y)-2(3x+y)$ の値

$$\begin{aligned} & \star (7x-2y)-2(3x+y) \\ & = 7x-2y-6x-2y \\ & = x-4y \end{aligned}$$

$$\begin{aligned} & = 3-4 \times 0.5 \\ & = 3-2 \\ & = 1 \end{aligned}$$

答 1