

多項式と単項式の除法

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① 分数の形にした計算

$$\begin{aligned}(b+c) \div a \\ &= \frac{b+c}{a} \\ &= \frac{b}{a} + \frac{c}{a}\end{aligned}$$

② 逆数の乗法にした計算

$$\begin{aligned}(b+c) \div a \\ &= (b+c) \times \frac{1}{a} \\ &= \frac{b}{a} + \frac{c}{a}\end{aligned}$$

1 次の計算をなさい。

① $(6xy + 9x) \div 3x$

② $(4xy - 12y) \div 2y$

③ $(8ab + 4a) \div 4a$

④ $(6ab - 8b) \div (-2b)$

⑤ $(-6ax + 4ay) \div 2a$

⑥ $(3x^2 + 6x) \div (-3x)$

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① 分数の形にした計算

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② 逆数の乗法にした計算

$$\begin{aligned} & (b+c) \div a \\ &= (b+c) \times \frac{1}{a} \\ &= \frac{b}{a} + \frac{c}{a} \end{aligned}$$

1 次の計算をなさい。

$$\begin{aligned} \text{①} \quad & (6xy + 9x) \div 3x \\ &= \frac{6xy + 9x}{3x} \\ &= \frac{6xy}{3x} + \frac{9x}{3x} \\ &= 2y + 3 \end{aligned}$$

$$\begin{aligned} \text{②} \quad & (4xy - 12y) \div 2y \\ &= \frac{4xy - 12y}{2y} \\ &= \frac{4xy}{2y} - \frac{12y}{2y} \\ &= 2x - 6 \end{aligned}$$

$$\begin{aligned} \text{③} \quad & (8ab + 4a) \div 4a \\ &= \frac{8ab + 4a}{4a} \\ &= \frac{8ab}{4a} + \frac{4a}{4a} \\ &= 2b + 1 \end{aligned}$$

$$\begin{aligned} \text{④} \quad & (6ab - 8b) \div (-2b) \\ &= \frac{6ab - 8b}{-2b} \\ &= \frac{6ab}{-2b} - \frac{8b}{-2b} \\ &= -3a + 4 \end{aligned}$$

$$\begin{aligned} \text{⑤} \quad & (-6ax + 4ay) \div 2a \\ &= \frac{-6ax + 4ay}{2a} \\ &= \frac{-6ax}{2a} + \frac{4ay}{2a} \\ &= -3x + 2y \end{aligned}$$

$$\begin{aligned} \text{⑥} \quad & (3x^2 + 6x) \div (-3x) \\ &= \frac{3x^2 + 6x}{-3x} \\ &= \frac{3x^2}{-3x} + \frac{6x}{-3x} \\ &= -x - 2 \end{aligned}$$