

◇ 多項式の加法

$$\begin{aligned}
 \text{(例)} \quad & (6a-3b+2)+(-a+2b-3) \\
 & = 6a-3b+2-a+2b-3 \\
 & = \underline{6a-a-3b+2b+2-3} \\
 & = 5a-b-1
 \end{aligned}$$

$$\begin{array}{r}
 \text{(別解)} \quad 6a-3b+2 \\
 + \quad -a+2b-3 \\
 \hline
 5a-b-1
 \end{array}$$

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◇ 多項式の減法

$$\begin{aligned}
 \text{(例)} \quad & (2x^2-8x-1)-(x^2+3x-5) \\
 & = 2x^2-8x-1-x^2-3x+5 \\
 & = \underline{2x^2-x^2-8x-3x-1+5} \\
 & = x^2-11x+4
 \end{aligned}$$

$$\begin{array}{r}
 \text{(別解)} \quad 2x^2-8x-1 \\
 + \quad -x^2-3x+5 \\
 \hline
 x^2-11x+4
 \end{array}$$

◎ ひく式の各項の符号を変えて
加法に直す

$$\begin{aligned}
 \text{Ex. (1)} \quad & (3a^2-10+5a)-(8a+6a^2-7) \\
 & = 3a^2-10+5a-8a-6a^2+7 \\
 & = \underline{3a^2-6a^2-10+7+5a-8a} \\
 & = -3a^2-3-3a
 \end{aligned}$$

$$\begin{array}{r}
 \text{(2)} \quad 4x^2-x+2 \\
 + \quad -7x^2+2x+5 \\
 \hline
 -3x^2+x+7
 \end{array}$$

$$\begin{array}{r}
 \text{(3)} \quad 5a-3b-4 \\
 + \quad -6a+5b+1 \\
 \hline
 -a-8b-3
 \end{array}$$

◇ 多項式と数の乗法・除法

$$\begin{aligned}
 \text{分配法則} \quad & a(b+c) = ab+ac \\
 & (b+c)a = ab+ac
 \end{aligned}$$

$$\begin{aligned}
 \text{例 (1)} \quad & -3(5x-4y) \\
 & = -15x+12y
 \end{aligned}$$

$$\begin{aligned}
 \text{(2)} \quad & (12a-30b) \div (-6) \\
 & = -2a+5b
 \end{aligned}$$

$$\begin{aligned}
 \text{(3)} \quad & (12a-30b) \div \left(-\frac{3}{2}\right) \\
 & = (12a-30b) \times \left(-\frac{2}{3}\right) \quad \leftarrow \text{わる数の逆数をかける} \\
 & = \overset{4}{12}a \times \left(-\frac{2}{3}\right) - \overset{10}{30}b \times \left(-\frac{2}{3}\right) \\
 & = -8a+20b
 \end{aligned}$$

$$\begin{aligned}
 \text{Ex.} \quad & (10x-26y) \div \left(-\frac{2}{3}\right) \\
 & = (10x-26y) \times \left(-\frac{3}{2}\right) \\
 & = \overset{5}{10}x \times \left(-\frac{3}{2}\right) - \overset{13}{26}y \times \left(-\frac{3}{2}\right) \\
 & = -15x+39y
 \end{aligned}$$

$$\begin{aligned}
 \text{(別)} \quad & = -\frac{3(10x-26y)}{2} \\
 & = -3(5x-13y)
 \end{aligned}$$

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