

スタート

解答中学2年生

ゴール

文字の式

同類項をまとめるので

$$\begin{aligned} & 4a + 2b + 3a \\ &= 4a + 3a + 2b \\ &= 7a + 2b \end{aligned}$$

同類項をまとめるので

$$\begin{aligned} & 5a + b - 2a + 3b \\ &= 5a - 2a + b + 3b \\ &= 3a + 4b \end{aligned}$$

同類項をまとめるので

$$\begin{aligned} & 3x^2 + 6x + 2x^2 - 4x \\ &= 3x^2 + 2x^2 + 6x - 4x \\ &= 5x^2 + 2x \end{aligned}$$

$$\begin{aligned} & (5x + y) + (x + 4y) \\ &= 5x + y + x + 4y \\ &= 6x + 5y \end{aligned}$$

分配法則を使って
かっこをはずすと

$$\begin{aligned} & 3(2x - 7y) \\ &= 6x - 21y \end{aligned}$$

$$\begin{aligned} & \frac{3x \times 8x}{4x} \\ &= \frac{24x^2}{4x} \\ &= 6x \end{aligned}$$

文字も約分できるので

$$\begin{aligned} & 8xy \div 2y \\ &= 4x \end{aligned}$$

$$\begin{aligned} & (-3a) \times 4b \\ &= -12ab \end{aligned}$$

$$\begin{aligned} & 5a \times 2b \\ &= 10ab \end{aligned}$$

かっこをはずしてから計算

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

式の値

代入して計算すると

$$\begin{aligned} & x = 4, y = -5 \\ & 5x + 2y \\ &= 5 \times 4 + 2 \times (-5) \\ &= 20 - (10) \\ &= 10 \end{aligned}$$

式を簡単にしてから代入

$$\begin{aligned} & x = 3, y = 2 \\ & x^2y \div x = xy \\ &= 3 \times 2 = 6 \end{aligned}$$



連立方程式

$$\begin{aligned} & 5x + 2y = 15 \\ -) & 5x + y = 10 \\ & \hline & y = 5 \end{aligned}$$

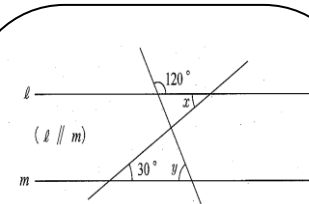
y = 5を代入

$$\begin{aligned} & 5x + 5 = 10 \quad x = 1 \\ & (x, y) = (1, 5) \end{aligned}$$

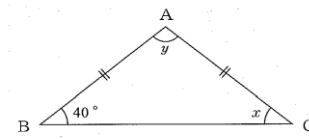
代入法で解くと

$$\begin{aligned} & x + (x + 1) = 7 \\ & 2x = 6 \\ & x = 3 \\ & x = 3を代入 \quad y = 4 \\ & (x, y) = (3, 4) \end{aligned}$$

図形の性質



平行線の錯角は等しいので $\angle x = 30^\circ$
 平行線の同位角は等しいので $\angle y = 60^\circ$



$(AB = AC)$
 $\angle x = 40^\circ$
 三角形の内角の和は 180° なので
 $\angle y = 100^\circ$