

めあて

はじめた時間 :

次の等式も[]内の文字について解きなさい。

$$\begin{aligned} (1) \quad 3x - 12y &= 9 \quad [x] \\ 3x - 12y + 12y &\rightarrow 3x = 9 + 12y \\ 3x &= 12y + 9 \\ x &= 4y + 3 \end{aligned}$$

$$(2) \quad V = \frac{1}{3} \pi a^2 b \quad [b]$$

$$\frac{1}{3} \pi a^2 b = V$$

$$b = V \times \frac{3}{\pi a^2}$$

$$b = \frac{3V}{\pi a^2}$$

$$(3) \quad x = y(z + 3) \quad [z]$$

$$\begin{aligned} x &= yz + 3y \\ -yz &= -x + 3y \\ z &= \frac{-x}{-y} + \frac{3y}{-y} \\ z &= \frac{x}{y} - 3 \end{aligned}$$

$$(4) \quad S = \frac{1}{2} (a+b) c \quad [b]$$

$$\begin{aligned} S &= \frac{1}{2} ac + \frac{1}{2} bc \\ -\frac{1}{2} bc &= \frac{1}{2} ac - S \\ b &= \frac{1}{2} ac \times \frac{2}{c} - S \times \frac{2}{c} \\ &= -a + \frac{2S}{c} \\ S &= -a + \frac{2S}{c} \end{aligned}$$

$$\begin{aligned} (5) \quad 6x + y &= 9 \quad [y] \\ y &= -6x + 9 \end{aligned}$$

$$(6) \quad x = \frac{2a + 4b}{3} \quad [a]$$

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

ふりかえり

おえた時間 :