

■ 次の等式を[]の中の文字について解きなさい。

$$\textcircled{1} 4ab + c = 4 \quad [a]$$

$$\textcircled{5} (x + y)a - (x - y) = 0 \quad [a]$$

$$\textcircled{2} \frac{3x}{y} + \frac{2}{y} = y \quad [x]$$

$$\textcircled{6} 2x + 5y = -\frac{1}{3} \quad [y]$$

$$\textcircled{3} 2x + 12yz = 4 \quad [z]$$

$$\textcircled{7} \frac{2z}{x + y} = 4 \quad [z]$$

$$\textcircled{4} x + 3y = \frac{1}{6} \quad [y]$$

$$\textcircled{8} \frac{1 - a}{3} + \frac{2 + b}{2} = 1 \quad [b]$$

■ 次の等式を[]の中の文字について解きなさい。

① $4ab + c = 4$ [a]

$$4ab = 4 - c$$

$$a = \frac{1}{b} - \frac{c}{4b}$$

② $\frac{3x}{y} + \frac{2}{y} = y$ [x]

$$3x + 2 = y^2$$

$$3x = y^2 - 2$$

$$x = \frac{y^2 - 2}{3}$$

③ $2x + 12yz = 4$ [z]

$$12yz = 4 - 2x$$

$$z = \frac{1}{3y} - \frac{x}{6y}$$

④ $x + 3y = \frac{1}{6}$ [y]

$$3y = \frac{1}{6} - x$$

$$y = \frac{1}{18} - \frac{x}{3}$$

⑤ $(x + y)a - (x - y) = 0$ [a]

$$(x + y)a = x - y$$

$$a = \frac{x - y}{x + y}$$

⑥ $2x + 5y = -\frac{1}{3}$ [y]

$$5y = -\frac{1}{3} - 2x$$

$$y = -\frac{1}{15} - \frac{2x}{5}$$

⑦ $\frac{2z}{x + y} = 4$ [z]

$$2z = 4x + 4y$$

$$z = 2x + 2y$$

⑧ $\frac{1 - a}{3} + \frac{2 + b}{2} = 1$ [b]

$$2 - 2a + 6 + 3b = 6$$

$$3b = 2a - 2$$

$$b = \frac{2a - 2}{3}$$