

■ 次の等式を[ ]の中の文字について解きなさい。

①  $\frac{a-1}{3} = b$  [a]

⑤  $4ab + 2c = 1$  [c]

②  $6abc = -4$  [b]

⑥  $3x + 4y + 2z = 6$  [x]

③  $3x + 12y = 1$  [y]

⑦  $V = abh$  [b]

④  $\frac{1}{2}x - \frac{1}{3}y = -1$  [y]

⑧  $2a^2 + 3b = 5 - c$  [b]

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

$$a - 1 = 3b$$

$$a = 3b + 1$$

$$\textcircled{2} 6abc = -4 \quad [b]$$

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

$$\textcircled{3} 3x + 12y = 1 \quad [y]$$

$$12y = 1 - 3x$$

$$y = \frac{1}{12} - \frac{x}{4}$$

$$\textcircled{4} \frac{1}{2}x - \frac{1}{3}y = -1 \quad [y]$$

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

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

$$\textcircled{5} 4ab + 2c = 1 \quad [c]$$

$$2c = 1 - 4ab$$

$$c = \frac{1}{2} - 2ab$$

$$\textcircled{6} 3x + 4y + 2z = 6 \quad [x]$$

$$3x = 6 - 4y - 2z$$

$$x = 2 - \frac{4y}{3} - \frac{2z}{3}$$

$$\textcircled{7} V = abh \quad [b]$$

$$b = \frac{V}{ah}$$

$$\textcircled{8} 2a^2 + 3b = 5 - c \quad [b]$$

$$3b = 5 - c - 2a^2$$

$$b = \frac{5 - c - 2a^2}{3}$$