

## 等式の変形2

NO.1

名前

／6 点

1 次の各式を内の文字について解きなさい。

(1)  $2x - 3y = 5$  [ x ]

(2)  $5x + y = 3$  [ x ]

(3)  $5(a - 3b) = -2$  [ a ]

(4)  $V = \frac{1}{3} \pi r^2 h$  [ h ]

(5)  $c = \frac{a + 7b}{4}$  [ b ]

(6)  $S = 2(ab + bc)$  [ a ]

## 解答

$$(1) \quad 2x = 3y + 5$$

$$x = \frac{3y + 5}{2}$$

$$(2) \quad 5x = -y + 3$$

$$x = \frac{-y + 3}{5}$$

$$(3) \quad 5a - 15b = -2$$

$$5a = 15b - 2$$

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

$$(4) \quad 3V = \pi r^2 h$$

$$h = \frac{3V}{\pi r^2}$$

$$(5) \quad 4c = a + 7b$$

$$7b = -a + 4c$$

$$b = \frac{-a + 4c}{7}$$

$$(6) \quad S = 2ab + 2bc$$

$$2ab = S - 2bc$$

$$a = \frac{S}{2b} - c$$