等式の変形　1

年　　組　　番・氏名

◆次の等式を，［　］の中の文字について解け。

① $x + 2y = 5$　$[x]$	② $3x + y = 9$　$[y]$
$x = 5 - 2y$	$y = 9 - 3x$
③ $2x - 4y = 6$　$[x]$	④ $6x = 9 - 3y$　$[y]$
$2x = 6 + 4y$ $x = 3 + 2y$	$3y = 9 - 6x$ $y = 3 - 2x$
⑤ $5x - y = 10$　$[x]$	⑥ $2x + 3y = 7$　$[y]$
$5x = 10 + y$ $x = \dfrac{10 + y}{5}$　$\left(x = 2 + \dfrac{y}{5}\right)$	$3y = 7 - 2x$ $y = \dfrac{7 - 2x}{3}$
⑦ $V = abc$　$[a]$	⑧ $\ell = 2\pi r$　$[r]$
$abc = V$ $a = \dfrac{V}{bc}$	$2\pi r = \ell$ $r = \dfrac{\ell}{2\pi}$
⑨ $S = \dfrac{1}{2}ah$　$[h]$	⑩ $m = \dfrac{a + b}{2}$　$[a]$
$2S = ah$ $ah = 2S$ $h = \dfrac{2S}{a}$	$2m = a + b$ $a + b = 2m$ $a = 2m - b$

等式の変形　2

年　　組　　番・氏名

◆次の等式を，［　］の中の文字について解け。

① $x - y = 7$　$[x]$	② $5x + y = 3$　$[y]$
$x = 7 + y$	$y = 3 - 5x$
③ $5x - 10y = 15$　$[x]$	④ $6x = 8 + 2y$　$[y]$
$5x = 15 + 10y$ $x = 3 + 2y$	$-2y = 8 - 6x$ $y = -4 + 3x$
⑤ $4x - 5y = 3$　$[x]$	⑥ $x + 3y = 5$　$[y]$
$4x = 3 + 5y$ $x = \dfrac{3 + 5y}{4}$	$3y = 5 - x$ $y = \dfrac{5 - x}{3}$
⑦ $S = ab$　$[a]$	⑧ $S = \pi r^2 h$　$[h]$
$ab = S$ $a = \dfrac{S}{b}$	$\pi r^2 h = S$ $h = \dfrac{S}{\pi r^2 h}$
⑨ $V = \dfrac{1}{3}Sh$　$[h]$	⑩ $m = \dfrac{x + y + z}{3}$　$[x]$
$3V = Sh$ $Sh = 3V$ $h = \dfrac{3V}{S}$	$3m = x + y + z$ $x + y + z = 3m$ $x = 3m - y - z$