

自主課題 No. 2

2年 組 番 名前:

文字の計算

次の計算をしなさい

(1) $3x^2 + 4x - x^2 - 7x$

(9) $\frac{4}{3}a^2 \div (-12ab) \times \frac{6}{5}ab^2$

(15) $7x + 8y = 5$ [y]

(2) $4x^2 - 3x + 5x - x^2$

(16) $6x + 2y = 8$ [y]

(10) $\frac{2a+3b}{4} - \frac{a+5b}{3}$

(3) $5(x-2y) - 3(2x-7y)$

(17) $\theta = 2(a+b)$ [a]

(4) $6ab \div \left[-\frac{3}{4}a \right]$

(11) $\frac{x-2y}{6} - \frac{x-y}{8}$

(18) $a = 3(b-c)$ [c]

(5) $\frac{3}{4}(8x-16y)$

(12) $\frac{3x-y}{3} - \frac{-x+y}{2}$

(19) $3(a-b) = 5$ [b]

(6) $\left[-\frac{5}{6}xy^2 \right] \div \left[-\frac{10}{9}xy \right]$

(20) $S = \frac{1}{2}ah$ [a]

(13) $\frac{5x-2y}{6} - \frac{x-3y}{2}$

(21) $a = \frac{3b+5c}{8}$ [c]

(7) $12ab \div (-3a)^2 \times 2ab$

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

(8) $18a \div 9a^2 \times 2ab^2$

等式の変形

次の等式を [] 内の文字について解きなさい

(14) $7x + 2y = 4$ [y]

次の連立方程式を解きなさい。

(23) $6x + 5y - 3 = 3x - 5y - 14 = 5$

(28)
$$\begin{cases} 2x + 5y = 2(2x + y) + 8 \cdots \textcircled{1} \\ \frac{x}{3} + \frac{y}{4} = \frac{1}{6} \cdots \textcircled{2} \end{cases}$$

$(x, y) = (\quad , \quad)$

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(24) $3x - y = -2x + 3y = 7$

(29)
$$\begin{cases} 3(x + 2y) = -2x + 27 \cdots \textcircled{1} \\ \frac{5}{9}x - \frac{1}{3}y = -4 \cdots \textcircled{2} \end{cases}$$

$(x, y) = (\quad , \quad)$

(25) $-5x - 7y - 2 = 2x + 3y = -1$

$(x, y) = (\quad , \quad)$

(30)
$$\begin{cases} 2x - \frac{1-y}{3} = -4 \cdots \textcircled{1} \\ 5x + y = -8 \cdots \textcircled{2} \end{cases}$$

$(x, y) = (\quad , \quad)$

(26) $2(x - 3y) - 1 = x - 4y + 4 = 3x - 2y$

$(x, y) = (\quad , \quad)$

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(27)
$$\begin{cases} \frac{1}{4}x - \frac{1}{2}y = -2 \cdots \textcircled{1} \\ -0.4x + 0.3y = 0.7 \cdots \textcircled{2} \end{cases}$$

$(x, y) = (\quad , \quad)$