

これができればまあまあだ！ 計算復習シリーズ(中1内容) vol.①

名前 _____

／合格点は-2 (-3以下は追試)

1 (1) $5 - (-9)$
 $= 5 + 9$

(2) $3 - 5 + 7$
 $= -2 + 7$

(3) $-4 + (8 - 20)$
 $= -4 + (-12)$

[14]

[5]

[-16]

(4) $3 + 2 \times (-4)$
 $= 3 - 8$

(5) $3 \times 4 - (-2)$
 $= 12 + 2$

(6) $-7 + (-6)^2 \div 9$
 $= -7 + 36 \div 9$
 $= -7 + 4$

[-5]

[14]

[-3]

(7) $\frac{3}{4} \times \left(-\frac{8}{9}\right) + \frac{2}{3}$
 $= -\frac{1}{6} + \frac{4}{6} = +\frac{3}{6}$

(8) $\frac{5}{2} - \left(-\frac{3}{2}\right) \div \frac{3}{4}$
 $= \frac{5}{2} - \left(-\frac{3}{2} \times \frac{4}{3}\right)$
 $= \frac{5}{2} - \left(-\frac{4}{2}\right) = \frac{9}{2}$

(9) $\left(-\frac{1}{2}\right)^2 \div \left(-\frac{1}{14}\right) + \frac{1}{2}$
 $= \frac{1}{4} \times \left(-\frac{14}{1}\right) + \frac{1}{2}$
 $= -\frac{7}{2} + \frac{1}{2}$

[$\frac{1}{2}$]

[$\frac{9}{2}$]

[-3]

2 (1) $5a - (9a + 4)$
 $= 5a - 9a - 4$

(2) $3(x - 2) - 5x + 7$
 $= 3x - 6 - 5x + 7$

(3) $7a - 4 + 2(1 - a)$
 $= 7a - 4 + 2 - 2a$

[$-4a - 4$]

[$-2x + 1$]

[$5a - 2$]

(4) $2(a + 3) - (a - 1)$
 $= 2a + 6 - a + 1$

(5) $2(a - 1) + 3(a + 2)$
 $= 2a - 2 + 3a + 6$

(6) $3(x - 3) - 5(x - 2)$
 $= 3x - 9 - 5x + 10$

[$a + 7$]

[$5a + 4$]

[$-2x + 1$]

(7) $\frac{x+1}{3} + \frac{x-1}{2}$
 $= \frac{2(x+1) + 3(x-1)}{6}$
 $= \frac{2x+2+3x-3}{6} = \frac{5x-1}{6}$

(8) $\frac{1}{4}(x+1) + \frac{1}{8}(5x-4)$
 $= \frac{1}{4}x + \frac{1}{4} + \frac{5}{8}x - \frac{1}{2}$
 $= \frac{2}{8}x + \frac{5}{8}x + \frac{1}{4} - \frac{2}{4} = \frac{7}{8}x - \frac{1}{4}$

(9) $\frac{2a+1}{3} - \frac{a-1}{2}$
 $= \frac{2(2a+1) - 3(a-1)}{6}$
 $= \frac{4a+2-3a+3}{6} = \frac{a+5}{6}$

[$\frac{5x-1}{6}$]

[$\frac{7}{8}x - \frac{1}{4}$]

[$\frac{a+5}{6}$]

3 次の方程式を解きなさい。

(1) $6x - 5 = 13$
 $6x = 13 + 5$
 $6x = 18$

(2) $6x + 13 = x - 2$
 $6x - x = -2 - 13$
 $5x = -15$

(3) $3x - 2 = -3x + 4$
 $3x + 3x = 4 + 2$
 $6x = 6$

[$x = 3$]

[$x = -3$]

[$x = 1$]

(4) $3x - \frac{2}{3}(2x - 1) = 4$ (Y3)
 $9x - 2(2x - 1) = 12$
 $9x - 4x + 2 = 12$
 $5x = 10$ [$x = 2$]

(5) $7(x - 3) = 2(x + 2)$
 $7x - 21 = 2x + 4$
 $7x - 2x = 4 + 21$
 $5x = 25$

(6) $5(x + 2) = 3 - 2x$
 $5x + 10 = 3 - 2x$
 $5x + 2x = 3 - 10$
 $7x = -7$

[$x = 5$]

[$x = -1$]

☆ (7) $\frac{1-2x}{5} = \frac{2-x}{3}$

(8) $\frac{x-1}{2} + \frac{x}{3} = 1$

(9) $2 - \frac{2}{3}x = \frac{1}{2}x - 5$

途中式は別紙

[$x = -7$]

[$x = \frac{9}{5}$]

[$x = 6$]

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名前 _____

合格点は-2 (-3以下は追試)

$$(7) \frac{1-2x}{5} = \frac{2-x}{3} \quad (\times 15)$$

$$3(1-2x) = 5(2-x)$$

$$3 - 6x = 10 - 5x$$

$$-6x + 5x = 10 - 3$$

$$-x = 7$$

$$\boxed{x = -7}$$

$$(8) \frac{x-1}{2} + \frac{x}{3} = 1 \quad (\times 6)$$

$$3(x-1) + 2x = 6$$

$$3x - 3 + 2x = 6$$

$$5x = 9$$

$$\boxed{x = \frac{9}{5}}$$

$$(9) 2 - \frac{2}{3}x = \frac{1}{2}x - 5 \quad (\times 6)$$

$$12 - 4x = 3x - 30$$

$$-4x - 3x = -30 - 12$$

$$-7x = -42$$

$$\boxed{x = 6}$$

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名前

／合格点は-2 (-3以下は追試)

- 1**
- (1) $(-7)+(-10)$
 $= -17$
 [-17]
- (2) $8+(-17)$
 $= -9$
 [-9]
- (3) $(-11)-(-9)$
 $= -11+9$
 [-2]
- (4) $(+35)-(+16)$
 [19]
- (5) $(-20)+43$
 [23]
- (6) $(-46)-(-30)$
 $= -46+30$
 [-16]
- (7) $13 \times (-4)$
 $= -52$
 [-52]
- (8) $(-24) \times (-\frac{7}{8})$
 $= 21$
 [21]
- (9) $(-\frac{3}{7}) \times \frac{14}{15}$
 $= -\frac{6}{5}$
 [$-\frac{6}{5}$]
- (10) $(-32) \div (-8)$
 $= 4$
 [4]
- (11) $\frac{5}{4} \div (-20)$
 $= \frac{5}{4} \times (-\frac{1}{20})$
 $= -\frac{1}{16}$
 [$-\frac{1}{16}$]
- (12) $(-\frac{7}{6}) \div (-\frac{14}{9})$
 $= (-\frac{7}{6}) \times (-\frac{9}{14})$
 $= \frac{3}{4}$
 [$\frac{3}{4}$]
- (13) $-6+11-8+4$
 $= -6-8+11+4$
 $= -14+15$
 [1]
- (14) $9+(-21)-(-8)-3$
 $= 9-21+8-3$
 $= 17-24$
 [-7]
- (15) $(-2)^3 \times (-10) \div (-4^2)$
 $= -8 \times (-10) \div (-16)$
 $= -5$
 [-5]
- (16) $(-\frac{2}{3})^2 \div 12 \times (-\frac{3}{4})$
 $= \frac{4}{9} \times \frac{1}{12} \times (-\frac{3}{4})$
 $= -\frac{1}{36}$
 [$-\frac{1}{36}$]
- 2**
- (1) $7a-6-4a+9$
 $= 7a-4a-6+9$
 [$3a+3$]
- (2) $0.4x-1-1.3x+0.8$
 $= 0.4x-1.3x-1+0.8$
 [$-0.9x-0.2$]
- (3) $(4m-3)+(6m+5)$
 $= 4m+6m-3+5$
 [$10m+2$]
- (4) $(-11x+8)+(9x-15)$
 $= -11x+9x+8-15$
 [$-2x-7$]
- (5) $(5y-21)-(7y-16)$
 $= 5y-7y-21+16$
 [$-2y-5$]
- (6) $(8a-15)-(17a-14)$
 $= 8a-17a-15+14$
 [$-9a-1$]
- (7) $3(x-6)+4(x+3)$
 $= 3x-18+4x+12$
 $= 3x+4x-18+12$
 [$7x-6$]
- (8) $5(y-2)-6(y-3)$
 $= 5y-10-6y+18$
 $= -y+8$
 [$-y+8$]
- (9) $-4(3a-2)+5(2a-3)$
 $= -12a+8+10a-15$
 $= -12a+10a+8-15$
 [$-2a-7$]
- (10) $6(3-2x)-9(4-x)$
 $= 18-12x-36+9x$
 $= -12x+9x+18-36$
 [$-3x-18$]
- (11) $\frac{2x-1}{3} + \frac{3x+4}{6}$
 $= \frac{2(2x-1)+3x+4}{6}$
 $= \frac{4x-2+3x+4}{6}$
 [$\frac{7x+2}{6}$]
- (12) $\frac{3a+5}{8} - \frac{5a+7}{12}$
 $= \frac{3(3a+5)-2(5a+7)}{24}$
 $= \frac{9a+15-10a-14}{24}$
 [$\frac{-a+1}{24}$]

これができればまあまあだ！ 計算復習シリーズ(中1内容) vol.③

名前

／合格点は-2 (-3以下は追試)

1 小数をふくむ方程式 次の方程式を解きなさい。

- (1) $0.6x - 0.7 = 0.5$ (x10)
 $6x - 7 = 5$
 $6x = 5 + 7$
 $6x = 12$ [$x = 2$]
- (2) $0.8x + 1.3 = -0.3$
 $8x + 13 = -3$
 $8x = -3 - 13$
 $8x = -16$ [$x = -2$]
- (3) $0.5x + 1.7 = 0.3x + 1.3$
 $5x + 17 = 3x + 13$
 $5x - 3x = 13 - 17$
 $2x = -4$ [$x = -2$]
- (4) $0.9x - 0.5 = 2.8 - 0.2x$
 $9x - 5 = 28 - 2x$
 $9x + 2x = 28 + 5$
 $11x = 33$ [$x = 3$]
- (5) $0.08x + 0.1 = 0.2x - 0.5$ (x100)
 $8x + 10 = 20x - 50$
 $8x - 20x = -50 - 10$
 $-12x = -60$ [$x = 5$]
- (6) $0.04 - 0.15x = -0.07x + 1.32$
 $4 - 15x = -7x + 132$
 $-15x + 7x = 132 - 4$
 $-8x = 128$ [$x = -16$]
- (7) $0.2(x - 15) = 0.5x$ (x10)
 $2(x - 15) = 5x$
 $2x - 30 = 5x$
 $-3x = 30$ [$x = -10$]
- (8) $1.4(2 - x) + 1.6 = x - 0.4$ (x10)
 $14(2 - x) + 16 = 10x - 4$
 $28 - 14x + 16 = 10x - 4$
 $-24x = -48$ [$x = 2$]
- (9) $0.16(3x - 8) = 0.13x - 0.23$ (x100)
 $16(3x - 8) = 13x - 23$
 $48x - 128 = 13x - 23$
 $35x = 105$ [$x = 3$]
- (10) $0.05(3x + 10) = 2.3 - 0.15x$ (x100)
 $5(3x + 10) = 230 - 15x$
 $15x + 50 = 230 - 15x$
 $30x = 180$ [$x = 6$]

2 分数をふくむ方程式 次の方程式を解きなさい。

- (1) $\frac{3}{4}x - 2 = 1$ (x4)
 $3x - 8 = 4$
 $3x = 4 + 8$
 $3x = 12$ [$x = 4$]
- (2) $\frac{1}{3}x = \frac{1}{2}x + 3$ (x6)
 $2x = 3x + 18$
 $2x - 3x = 18$
 $-x = 18$
 $x = -18$ [$x = -18$]
- (3) $\frac{5}{6}x - 4 = \frac{1}{3}x$ (x6)
 $5x - 24 = 2x$
 $5x - 2x = 24$
 $3x = 24$
 $x = 8$ [$x = 8$]
- (4) $\frac{1}{2}x = \frac{4}{3}x + 5$ (x6)
 $3x = 8x + 30$
 $3x - 8x = 30$
 $-5x = 30$ [$x = -6$]
- (5) $\frac{2}{5}x + 4 = \frac{1}{3}x - 3$ (x15)
 $6x + 60 = 5x - 45$
 $6x - 5x = -45 - 60$
 $x = -105$ [$x = -105$]
- (6) $\frac{5}{6}x + \frac{1}{3} = \frac{2}{3}x - \frac{3}{2}$ (x6)
 $5x + 2 = 4x - 9$
 $5x - 4x = -9 - 2$
 $x = -11$ [$x = -11$]
- (7) $\frac{x-3}{4} = \frac{x}{3}$ (x12)
 $3(x-3) = 4x$
 $3x - 9 = 4x$
 $-x = 9$ [$x = -9$]
- (8) $\frac{4x+1}{5} = \frac{x-5}{2}$ (x10)
 $2(4x+1) = 5(x-5)$
 $8x + 2 = 5x - 25$
 $3x = -27$ [$x = -9$]
- (9) $\frac{2(x-7)}{3} + \frac{3x+2}{5} = -3$ (x15)
 $5 \times 2(x-7) + 3(3x+2) = -45$
 $10x - 70 + 9x + 6 = -45$
 $19x = -45 + 64$
 $19x = 19$ [$x = 1$]
- (10) $\frac{3(x+5)}{4} - \frac{2(x+4)}{3} = \frac{3}{2}$ (x12)
 $3 \times 3(x+5) - 4 \times 2(x+4) = 18$
 $9x + 45 - 8x - 32 = 18$
 $x = 18 - 13$
 $x = 5$ [$x = 5$]

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名前

／合格点は-2 (-3以下は追試)

- 1**
- | | | |
|--|--|--|
| (1) $10 - (-3)$
$= 10 + 3$
[13] | (2) $6 + 0 - 7$
$= 6 - 7$
[-1] | (3) $\frac{-9 - 8 + 16 + 13}{-17 + 29}$
[12] |
| (4) $4 \times (-5)$
[-20] | (5) $(-\frac{2}{3}) \times (-\frac{1}{4})$
$= +\frac{2}{3} \times \frac{1}{4}$
[$\frac{1}{6}$] | (6) $42 \div (-6)$
[-7] |
| (7) $(-9^2) \div 3$
$= -81 \div 3$
[-27] | (8) $8 \times (-9) \div (-6)$
$= +(\frac{8}{1} \times \frac{9}{1} \times \frac{1}{6})$
[12] | (9) $-\frac{5}{6} \div \frac{1}{3} \div \frac{5}{2}$
$= -(\frac{5}{6} \times \frac{3}{1} \times \frac{2}{5})$
[-1] |
| (10) $6 - 6 \times (-2)$
$= 6 + 12$
[18] | (11) $7 - (-1)^3 - 2$
$= 7 - (-1) - 2$
[6] | (12) $\frac{((-8) + (-7)) \div 5 + 3}{(-15) \div 5 + 3} = -3 + 3$
[0] |

- 2**
- | | | |
|--|--|--|
| (1) $-2x + 5x$
[$3x$] | (2) $8x - 8y + 4x$
$= 8x + 4x - 8y$
[$12x - 8y$] | (3) $(4x - 9) - (3x + 7)$
$= 4x - 9 - 3x - 7$
[$x - 16$] |
| (4) $\frac{2}{9}a \times (-12)$
$= \frac{2}{3}a \times (-\frac{12}{1})$
[$-\frac{8}{3}a$] | (5) $4xy \div (-2x)$
$= \frac{4xy}{1} \times (-\frac{1}{2x})$
[$-2y$] | (6) $(30a - 10b) \div 10$
$= 30a \div 10 - 10b \div 10$
[$3a - b$] |
| (7) $x^3 \times x^3$
$= \frac{x \times x \times x \times x \times x \times x \times x}{x^6}$
[x^6] | (8) $-\frac{ab}{2} \div \frac{b}{4} \div (-2a)$
$= +(\frac{ab}{2} \times \frac{4}{b} \times \frac{1}{2a})$
[1] | (9) $4xy^3 \div (-x)^2 \times \frac{1}{6}x$
$= \frac{4xy^3}{1} \times \frac{1}{x^2} \times \frac{x}{6}$
[$\frac{2y^3}{3}$] |
| (10) $3(4x + 6) + 5(x - 3)$
$= 12x + 18 + 5x - 15$
[$17x + 3$] | (11) $\frac{1}{4}(x + 2) - (2x - 6)$
$= \frac{1}{4}x + \frac{1}{2} - 2x + 6$
[$-\frac{7}{4}x + \frac{13}{2}$] | (12) $\frac{3x + y}{3} - \frac{x - 5y}{6}$
$= \frac{6x + 2y - x + 5y}{6}$
[$\frac{5x + 7y}{6}$] |

3 次の方程式を解きなさい。

- | | | |
|--|---|---|
| (1) $5x + 1 = 3x - 7$
$2x = -8$
[$x = -4$] | (2) $11x - 2 = 6x - 7$
$5x = -5$
[$x = -1$] | (3) $x - 2(2x - 8) = 22$
$x - 4x + 16 = 22$
$-3x = 6$
[$x = -2$] |
|--|---|---|

- (4) $\frac{2}{3}x - 1 = \frac{1}{6}x + 2$
[$x = 6$]
- (5) $0.6(x + 2) = 9$
[$x = 13$]
- (6) $\frac{3x + 1}{4} = \frac{2x - 1}{3}$
[$x = -7$]

- (7) $\begin{cases} x - 3y = -2 \\ 4x + 3y = 22 \end{cases}$
[$x = 4, y = 2$]
- (8) $\begin{cases} x = 2y - 5 \\ 3x + 8y = -1 \end{cases}$
[$x = -3, y = 1$]
- (9) $\begin{cases} 2x - 8y = 18 \\ 4x + 2y = 18 \end{cases}$
[$x = 5, y = -1$]

- (10) $\begin{cases} 0.1x - 0.5y = 2.8 \\ \frac{1}{4}x + y = -2 \end{cases}$
[$x = 8, y = -4$]
- (11) $\begin{cases} 2x - (5 + y) = 4 \\ 0.8x - 1.5y = 0.3 \end{cases}$
[$x = 6, y = 3$]
- (12) $\begin{cases} \frac{x}{5} + \frac{y}{3} = \frac{3}{5} \\ \frac{x}{3} + \frac{y}{2} = \frac{5}{6} \end{cases}$
[$x = -2, y = 3$]

途中式は裏面に！

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名前 _____

/合格点は-2 (-3以下は追試)

$$(4) \frac{2}{3}x - 1 = \frac{1}{6}x + 2$$

$$\left(\frac{2}{3}x - 1\right) \times 6 = \left(\frac{1}{6}x + 2\right) \times 6$$

$$4x - 6 = x + 12$$

$$3x = 18$$

$$x = 6$$

$$(5) 0.6(x+2) = 9 \quad \leftarrow \text{両辺を10倍 (}\times 10\text{)}$$

$$6(x+2) = 90$$

$$6x + 12 = 90$$

$$6x = 78$$

$$x = 13$$

$$(6) \frac{3x+1}{4} = \frac{2x-1}{3}$$

$$12 \times \frac{3x+1}{4} = 12 \times \frac{2x-1}{3}$$

$$9x + 3 = 8x - 4$$

$$x = -7$$

$$(7) \begin{cases} x - 3y = -2 \\ 4x + 3y = 22 \end{cases}$$

$$\begin{array}{r} x - 3y = -2 \\ +) 4x + 3y = 22 \\ \hline 5x = 20 \\ x = 4 \end{array}$$

$$\begin{array}{r} 4 - 3y = -2 \\ -3y = -6 \\ y = 2 \end{array}$$

$$(8) \begin{cases} x = 2y - 5 \\ 3x + 8y = -1 \end{cases}$$

$$3(2y - 5) + 8y = -1$$

$$6y - 15 + 8y = -1$$

$$14y = 14$$

$$y = 1$$

$$\begin{array}{l} x = 2 - 5 \\ x = -3 \end{array}$$

$$(9) \begin{cases} 2x - 8y = 18 \\ 4x + 2y = 18 \end{cases}$$

$$\begin{array}{r} 2x - 8y = 18 \\ -) 4x + 2y = 18 \\ \hline -18y = 18 \\ y = -1 \end{array}$$

$$\begin{array}{l} 2x + 8 = 18 \\ 2x = 18 - 8 \\ 2x = 10 \\ x = 5 \end{array}$$

$$(10) \begin{cases} 0.1x - 0.5y = 2.8 \\ \frac{1}{4}x + y = -2 \end{cases}$$

$$\begin{array}{r} x - 5y = 28 \\ -) x + 4y = -8 \\ \hline -9y = 36 \\ y = -4 \end{array}$$

$$\begin{array}{l} x + 20 = 28 \\ x = 28 - 20 \\ x = 8 \end{array}$$

$$(11) \begin{cases} 2x - (5 + y) = 4 \\ 0.8x - 1.5y = 0.3 \end{cases}$$

$$\begin{array}{r} 2x - 5 - y = 4 \\ 2x - y = 9 \\ -) 8x - 15y = 3 \\ \hline -11y = -33 \\ y = 3 \end{array}$$

$$\begin{array}{l} 2x - 3 = 9 \\ 2x = 12 \\ x = 6 \end{array}$$

$$(12) \begin{cases} \frac{x}{5} + \frac{y}{3} = \frac{3}{5} \\ \frac{x}{3} + \frac{y}{2} = \frac{5}{6} \end{cases}$$

$$\begin{array}{r} 3x + 5y = 9 \\ 2x + 3y = 5 \\ \hline 6x + 10y = 18 \\ -) 6x + 9y = 15 \\ \hline y = 3 \end{array}$$

$$\begin{array}{l} 2x + 9 = 5 \\ 2x = 5 - 9 \\ x = -2 \end{array}$$

計算復習シリーズ(中2内容) vol.⑤

これができるばあまあだ!

名前

／合格点は-2 (-3以下は追試)

- 1**
- | | | |
|---|---|--|
| (1) $5+(-4)$
= +1
{ 1 } | (2) $-8-(-1)$
= -8+1
= -7
{ -7 } | (3) $\frac{5}{6}-\frac{3}{4}-\frac{1}{2} = \frac{10}{12}-\frac{9}{12}-\frac{6}{12} = -\frac{5}{12}$
{ $-\frac{5}{12}$ } |
| (4) $(-6)\times(-6)$
= 36
{ 36 } | (5) $(-84)\div 7$
= $-\frac{84}{7} = -12$
{ -12 } | (6) $-9\div(-\frac{3}{5}) = 9 \times \frac{5}{3} = 15$
{ 15 } |
| (7) $-5^2\times(-2)$
= $-25\times(-2) = 50$
{ 50 } | (8) $(-0.2)\times 6\div(-4)$
= $(-1.2)\div(-4) = 0.3$
{ 0.3 } | (9) $3-18\div 3$
= $3-6 = -3$
{ -3 } |
| (10) $12\times(\frac{1}{3}+\frac{1}{6}) = 4+2 = 6$
{ 6 } | (11) $8\times(1-7)\div(-2)$
= $8\times(-6)\div(-2) = -48\div(-2) = 24$
{ 24 } | (12) $(-2)^3\times(-\frac{1}{2})^2-2$
= $(-8)\times\frac{1}{4}-2 = -2-2 = -4$
{ -4 } |

- 2**
- | | | |
|---|--|---|
| (1) $x-\frac{5}{3}x$
= $\frac{3}{3}x-\frac{5}{3}x = -\frac{2}{3}x$
{ $-\frac{2}{3}x$ } | (2) $5x-(2-6x)$
= $5x-2+6x = 11x-2$
{ $11x-2$ } | (3) $\begin{array}{r} 5x^2+2x \\ -) x^2+3x \\ \hline 4x^2+5x \end{array}$
{ $4x^2+5x$ } |
| (4) $(9x-15)\times\frac{1}{3}$
= $3x-5$
{ $3x-5$ } | (5) $2x\times 7xy$
{ $14x^2y$ } | (6) $-8x^3\div(-4x)$
= $\frac{28x^3}{4x} = 2x^2$
{ $2x^2$ } |
| (7) $6x^3y^2\div\frac{2}{3}x^2$
= $6x^3y^2\times\frac{3}{2x^2} = \frac{18x^3y^2}{2x^2} = 9xy^2$
{ $9xy^2$ } | (8) $\frac{1}{6}ab^2\times(-2a^3)\div\frac{1}{4}a^2b$
= $-\frac{2ab^2a^3}{6}\times\frac{4}{a^2b} = -\frac{8a^4b^2}{3a^2b} = -\frac{8a^2b}{3}$
{ $-\frac{8a^2b}{3}$ } | (9) $6(\frac{1}{2}x+4)+8(\frac{1}{2}x-\frac{5}{4})$
= $3x+24+4x-10 = 7x+14$
{ $7x+14$ } |
| (10) $4(a-3b-1)-3(2a-4b+1)$
= $4a-12b-4-6a+12b-3 = -2a-7$
{ $-2a-7$ } | (11) $\frac{5x+2y}{6}-\frac{3x-6y}{4}$
= $\frac{2(5x+2y)-3(3x-6y)}{12} = \frac{10x+4y-9x+18y}{12} = \frac{x+22y}{12}$
{ $\frac{x+22y}{12}$ } | |

3 次の方程式を解きなさい。

- | | | |
|---|--|---|
| (1) $3x+8=9$
$3x=9-8$
$3x=1$ { $x=\frac{1}{3}$ } | (2) $x-6=7x+18$
$x-7x=18+6$
$-6x=24$ { $x=-4$ } | (3) $2(x+5)=3(2x-6)$
$2x+10=6x-18$
$2x-6x=-18-10$
$-4x=-28$ { $x=7$ } |
| (4) $0.02x+1.4=0.1x+1$ (100)
$2x+140=10x+100$
$2x-10x=100-140$
$-8x=-40$ { $x=5$ } | (5) $\frac{1}{3}x+1=5(x+3)$ (3)
$x+3=15(x+3)$
$x+3=15x+45$
$-14x=42$ { $x=-3$ } | (6) $1-\frac{x-4}{2}=\frac{x+2}{6}$ (6)
$6-3(x-4)=x+2$
$6-3x+12=x+2$
$-4x=-16$ { $x=4$ } |
| (7) $\begin{cases} 3x-2y=-12 \\ 3x-y=-15 \end{cases}$
途中式は別紙
{ $x=-6, y=-3$ } | (8) $\begin{cases} y=2x-8 \\ y=x+4 \end{cases}$
{ $x=12, y=16$ } | (9) $\begin{cases} 6x-5y=21 \\ 9x+4y=-3 \end{cases}$
{ $x=1, y=-3$ } |

- | | | |
|--|---|---|
| (10) $\begin{cases} 0.2x+0.7y=6 \\ \frac{x}{5}-\frac{y}{5}=-3 \end{cases}$
{ $x=-5, y=10$ } | (11) $\begin{cases} y=-x+\frac{4}{3} \\ 6x-y-1=0 \end{cases}$
{ $x=\frac{1}{3}, y=1$ } | (12) $\begin{cases} \frac{2x-y}{3}=-1 \\ 3x-(2x-y)=9 \end{cases}$
{ $x=2, y=7$ } |
|--|---|---|

これができればまあまあだ！ 計算復習シリーズ(中2内容) vol.⑤

名前 _____

/合格点は-2 (-3以下は追試)

$$(7) \begin{cases} 3x - 2y = -12 \\ 3x - y = -15 \end{cases}$$

$$\begin{aligned} -y &= +3 \\ y &= -3 \end{aligned}$$

代入!!!

$$\begin{aligned} 3x + 6 &= -12 \\ 3x &= -18 \\ x &= -6 \end{aligned}$$

(1/2) 答 $x = -6, y = -3$

$$(8) \begin{cases} y = 2x - 8 \\ y = x + 4 \end{cases}$$

代入!!!

$$\begin{aligned} x + 4 &= 2x - 8 \\ -x &= -12 \\ x &= 12 \end{aligned}$$

$$\begin{aligned} y &= 12 + 4 \\ y &= 16 \end{aligned}$$

(1/2) 答 $x = 12, y = 16$

$$(9) \begin{cases} 6x - 5y = 21 \quad (\times 3) \\ 9x + 4y = -3 \quad (\times 2) \end{cases}$$

$$\begin{aligned} 18x - 15y &= 63 \\ -) 18x + 8y &= -6 \\ \hline -23y &= 69 \\ y &= -3 \end{aligned}$$

$$\begin{aligned} 6x + 15 &= 21 \\ 6x &= 6 \\ x &= 1 \end{aligned}$$

(1/2) 答 $x = 1, y = -3$

$$(10) \begin{cases} 0.2x + 0.7y = 6 \quad (\times 10) \\ \frac{x}{5} - \frac{y}{5} = -3 \quad (\times 5) \end{cases}$$

$$\begin{cases} 2x + 7y = 60 \\ x - y = -15 \quad (\times 2) \end{cases}$$

$$\begin{aligned} 2x - 2y &= -30 \\ -) 2x + 7y &= 60 \\ \hline -9y &= -90 \\ y &= 10 \end{aligned}$$

$$\begin{aligned} x - 10 &= -15 \\ x &= -5 \end{aligned}$$

(1/2) 答 $x = -5, y = 10$

$$(11) \begin{cases} y = -x + \frac{4}{3} \\ 6x - y - 1 = 0 \end{cases} \rightarrow y \text{に代入}$$

$$6x - (-x + \frac{4}{3}) - 1 = 0$$

$$6x + x - \frac{4}{3} - 1 = 0 \quad (\times 3)$$

$$18x + 3x - 4 - 3 = 0$$

$$\begin{aligned} 21x &= 7 \\ x &= \frac{1}{3} \end{aligned}$$

$$2 - y - 1 = 0$$

$$\begin{aligned} -y &= -1 \\ y &= 1 \end{aligned}$$

(1/2) 答 $x = \frac{1}{3}, y = 1$

$$(12) \begin{cases} \frac{2x - y}{3} = -1 \quad (\times 3) \\ 3x - (2x - y) = 9 \end{cases}$$

$$\begin{cases} 2x - y = -3 \\ 3x - 2x + y = 9 \end{cases}$$

$$x + y = 9$$

$$+) 2x - y = -3$$

$$3x = 6$$

$$x = 2$$

$$2 + y = 9$$

$$y = 7$$

(1/2) 答 $x = 2, y = 7$