

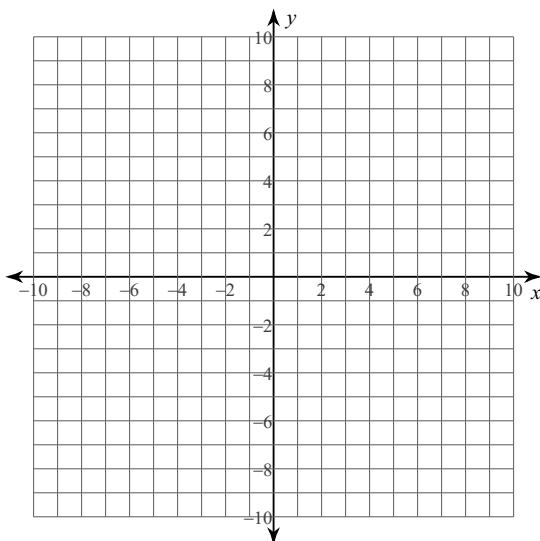
Systems of Equations - Mixed

Date _____ Class _____

Solve each system by graphing.

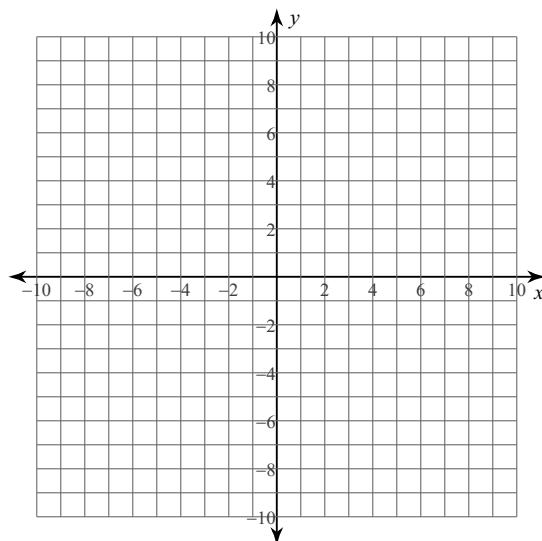
1) $y = -\frac{5}{6}x + 2$

$y = \frac{1}{6}x + 8$



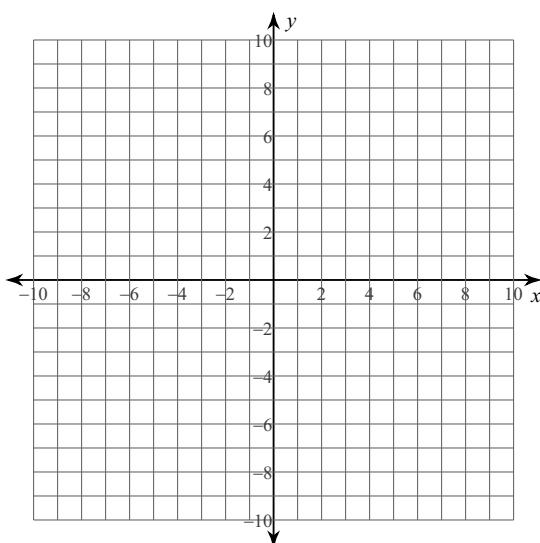
2) $y = \frac{2}{3}x + 1$

$y = -\frac{2}{9}x + 9$



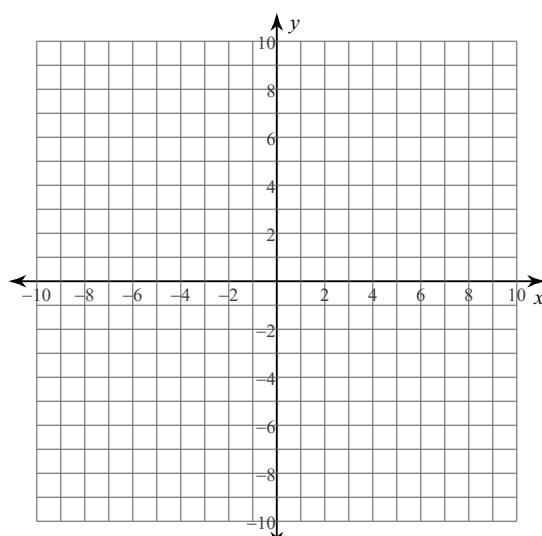
3) $y = 3x - 9$

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



4) $y = \frac{3}{2}x + 1$

$y = -\frac{1}{4}x - 6$



Solve each system by the method of your choice. For multiple choice questions, circle the correct answer.

$$5) \begin{aligned} 2x - 6y &= 28 \\ -x - y &= 14 \end{aligned}$$

$$6) \begin{aligned} 5x + 14y &= -10 \\ -8x + 7y &= 16 \end{aligned}$$

$$7) \begin{aligned} -5x - 14y &= -9 \\ -10x - 7y &= 3 \end{aligned}$$

$$8) \begin{aligned} -x - 4y &= 2 \\ 9x + 4y &= 14 \end{aligned}$$

$$9) \begin{aligned} 8x + 8y &= 8 \\ -8x + 2y &= -28 \end{aligned}$$

$$10) \begin{aligned} -2x + y &= 10 \\ -6x - y &= 14 \end{aligned}$$

$$11) \begin{aligned} -2x + 2y &= -16 \\ -3x - 2y &= 11 \end{aligned}$$

$$12) \begin{aligned} -8x + 2y &= 10 \\ -2x - 2y &= 20 \end{aligned}$$

$$13) \begin{aligned} -7x + 6y &= 2 \\ -7x + 6y &= -4 \end{aligned}$$

$$14) \begin{aligned} 7x - 3y &= 29 \\ 7x - 6y &= 23 \end{aligned}$$

$$15) \begin{aligned} -6x + 4y &= -2 \\ -4x + 4y &= -8 \end{aligned}$$

$$16) \begin{aligned} 3x - 3y &= 27 \\ 3x - 10y &= 27 \end{aligned}$$

$$17) \begin{aligned} x + 2y &= 5 \\ x + 2y &= -1 \end{aligned}$$

$$18) \begin{aligned} y &= 2x - 20 \\ 5x + 5y &= 20 \end{aligned}$$

$$19) \begin{aligned} y &= 4x + 18 \\ -4x - y &= 14 \end{aligned}$$

$$20) \begin{aligned} -2x - 5y &= 9 \\ y &= 1 \end{aligned}$$

$$21) \begin{aligned} y &= -3x + 9 \\ -x + 3y &= 17 \end{aligned}$$

$$22) \begin{aligned} y &= 3x + 22 \\ y &= 7 \end{aligned}$$

$$23) \begin{aligned} y &= -4 \\ y &= x - 12 \end{aligned}$$

$$24) \begin{aligned} y &= -1 \\ y &= x + 7 \end{aligned}$$

$$25) \begin{aligned} 8x + 2y &= 2 \\ y &= -5x + 3 \end{aligned}$$

- A) $(-7, 7)$ B) $(2, -7)$
C) No solution D) $(7, 7)$

$$26) \begin{aligned} y &= 4x - 5 \\ -x - 8y &= 7 \end{aligned}$$

- A) $(-6, 1)$ B) $(1, 1)$
C) $(-1, 1)$ D) $(1, -1)$

$$27) \begin{aligned} -3x + 7y &= -3 \\ y &= 2x - 2 \end{aligned}$$

- A) $(8, 0)$ B) $(1, 0)$
C) $(-8, 0)$ D) $(0, -8)$

$$28) \begin{aligned} -7x - 8y &= 0 \\ y &= x \end{aligned}$$

- A) $(-4, 5)$ B) $(-5, 5)$
C) $(0, 0)$ D) $(4, 5)$

$$29) \begin{aligned} -4x - 4y &= 12 \\ y &= -4x - 12 \end{aligned}$$

- A) No solution B) $(0, 3)$
C) $(-3, 0)$ D) $(3, 0)$

$$30) \begin{aligned} 6x - 10y &= -16 \\ x + 20y &= 19 \end{aligned}$$

- A) $(-1, 1)$ B) $(1, 1)$
C) $(-1, -5)$ D) $(1, -1)$

$$31) \begin{aligned} 9x - y &= -3 \\ -18x + 5y &= 15 \end{aligned}$$

- A) No solution B) $(0, 3)$
C) $(2, 2)$ D) $(2, -10)$

$$32) \begin{aligned} 3x - y &= 24 \\ -x - y &= -8 \end{aligned}$$

- A) $(-8, -8)$ B) $(-5, 8)$
C) $(8, 0)$ D) $(-8, 0)$

$$33) \begin{aligned} 3x + 8y &= 8 \\ 5x + 8y &= 24 \end{aligned}$$

- A) $(-8, 2)$ B) $(8, -2)$
C) $(-2, 8)$ D) $(8, 2)$

$$34) \begin{aligned} 5x + 6y &= 29 \\ -x - 6y &= -1 \end{aligned}$$

- A) $(1, -7)$ B) $(7, -1)$
C) $(-1, 7)$ D) $(1, 7)$

$$35) \begin{aligned} 4x + 2y &= -20 \\ -4x - 3y &= 26 \end{aligned}$$

- A) $(-2, 4)$ B) $(-2, -6)$
C) $(-2, 6)$ D) $(-4, -2)$

$$36) \begin{aligned} y &= -7x - 4 \\ y &= -x + 2 \end{aligned}$$

- A) $(-1, 3)$ B) $(1, 3)$
C) $(-3, 1)$ D) $(3, 1)$

Answers to Systems of Equations - Mixed (ID: 1)

- | | | | |
|-----------------|---------------|----------------|----------------|
| 1) $(-6, 7)$ | 2) $(9, 7)$ | 3) $(2, -3)$ | 4) $(-4, -5)$ |
| 5) $(-7, -7)$ | 6) $(-2, 0)$ | 7) $(-1, 1)$ | 8) $(2, -1)$ |
| 9) $(3, -2)$ | 10) $(-3, 4)$ | 11) $(1, -7)$ | 12) $(-3, -7)$ |
| 13) No solution | 14) $(5, 2)$ | 15) $(-3, -5)$ | 16) $(9, 0)$ |
| 17) No solution | 18) $(8, -4)$ | 19) $(-4, 2)$ | 20) $(-7, 1)$ |
| 21) $(1, 6)$ | 22) $(-5, 7)$ | 23) $(8, -4)$ | 24) $(-8, -1)$ |
| 25) B | 26) D | 27) B | 28) C |
| 29) C | 30) A | 31) B | 32) C |
| 33) B | 34) B | 35) B | 36) A |