Math 8 Name_____ ID: 1

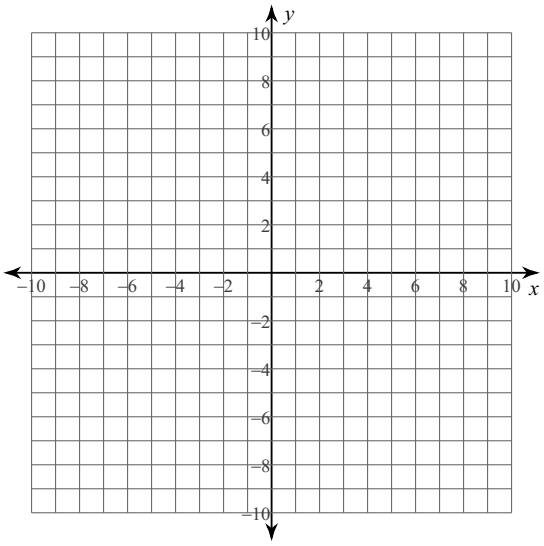
Systems of Equations - Mixed

Date_____ Class____

Solve each system by graphing.

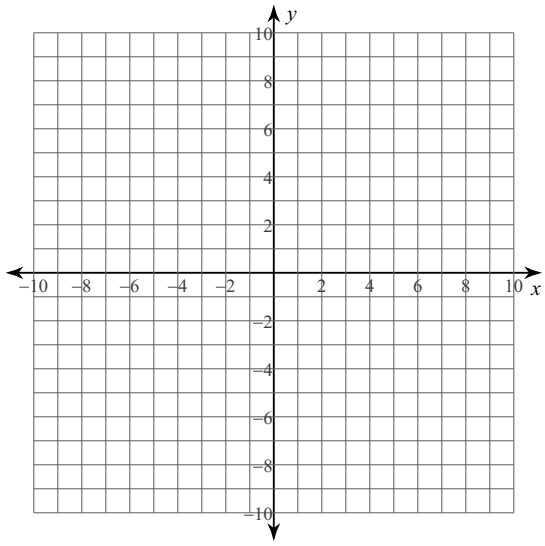
1) $y = -\frac{5}{6}x + 2$

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



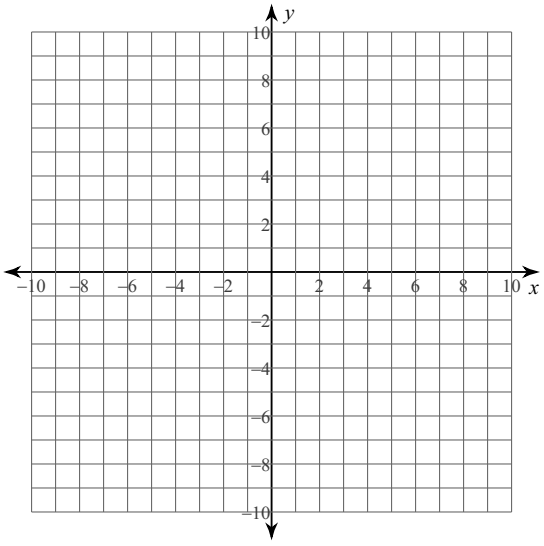
2) $y = \frac{2}{3}x + 1$

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



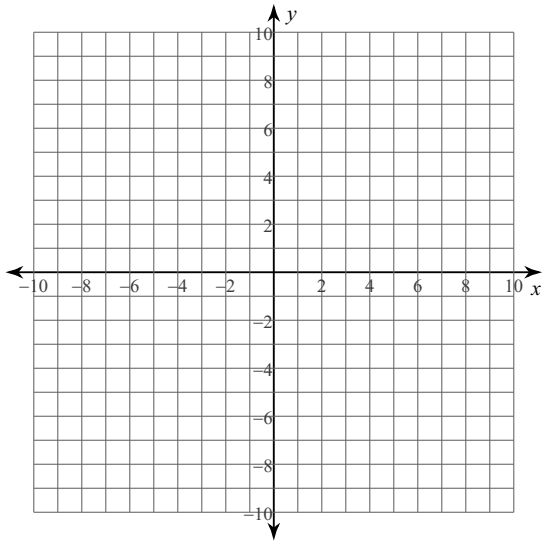
3) $y = 3x - 9$

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



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) $2x - 6y = 28$
$-x - y = 14$

6) $5x + 14y = -10$
$-8x + 7y = 16$

7) $-5x - 14y = -9$
$-10x - 7y = 3$

8) $-x - 4y = 2$
$9x + 4y = 14$

9) $8x + 8y = 8$
$-8x + 2y = -28$

10) $-2x + y = 10$
$-6x - y = 14$

11) $-2x + 2y = -16$
$-3x - 2y = 11$

12) $-8x + 2y = 10$
$-2x - 2y = 20$

13) $-7x + 6y = 2$
$-7x + 6y = -4$

14) $7x - 3y = 29$
$7x - 6y = 23$

15) $-6x + 4y = -2$
$-4x + 4y = -8$

16) $3x - 3y = 27$
$3x - 10y = 27$

17) $x + 2y = 5$
$x + 2y = -1$

18) $y = 2x - 20$
$5x + 5y = 20$

19) $y = 4x + 18$
$-4x - y = 14$

20) $-2x - 5y = 9$
$y = 1$

21) $y = -3x + 9$
$-x + 3y = 17$

22) $y = 3x + 22$
$y = 7$

23) $y = -4$
$y = x - 12$

24) $y = -1$
$y = x + 7$

25) $8x + 2y = 2$
$y = -5x + 3$

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

26) $y = 4x - 5$
$-x - 8y = 7$

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

27) $-3x + 7y = -3$
$y = 2x - 2$

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

28) $-7x - 8y = 0$
$y = x$

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

29) $-4x - 4y = 12$
$y = -4x - 12$

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

30) $6x - 10y = -16$
$x + 20y = 19$

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

31) $9x - y = -3$
$-18x + 5y = 15$

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

32) $3x - y = 24$
$-x - y = -8$

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

33) $3x + 8y = 8$
$5x + 8y = 24$

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

34) $5x + 6y = 29$
$-x - 6y = -1$

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

35) $4x + 2y = -20$
$-4x - 3y = 26$

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

36) $y = -7x - 4$
$y = -x + 2$

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