Algebra 2

Name_____

Assignment

Date_____ Period_____

Solve each system by substitution.

1) $y = 7x - 20$
   $y = 4x - 11$

2) $y = -3x + 4$
   $y = 5x - 4$

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

4) $y = -7x - 6$
   $y = 2x + 12$

5) $y = -3x + 9$
   $y = 6x - 9$

6) $-4x - y = 3$
   $y = -3x - 3$

7) $-6x - 8y = -4$
   $y = -1$

8) $4x + 7y = 23$
   $y = -8x - 19$

9) $y = -2x - 17$
   $-2x + 3y = 13$

10) $y = 4$
    $-2x - 2y = 8$

11) $-4x + y = -4$
    $6x - y = 2$

12) $-7x + y = -15$
    $-5x - 2y = 11$

13) $-3x - 4y = 13$
$\quad\ x + y = -5$

14) $-x - 6y = 14$
$\quad\ x + 3y = -5$

15) $-5x + y = 3$
$\quad\ 3x + 2y = 6$

16) $-5x - 4y = 22$
$\quad\ 6x + 3y = -21$

17) $6x + 3y = -3$
$\quad\ -3x + 3y = -12$

18) $-4x + 5y = -12$
$\quad\ 2x - 4y = 12$

19) $-2x - 3y = -13$
    $-7x + 2y = 17$

20) $-7x - 5y = 24$
    $5x + 7y = -24$

Solve each system by graphing.

21) $y = -x - 4$

$y = \dfrac{4}{3}x + 3$

22) $y = \dfrac{1}{2}x + 3$
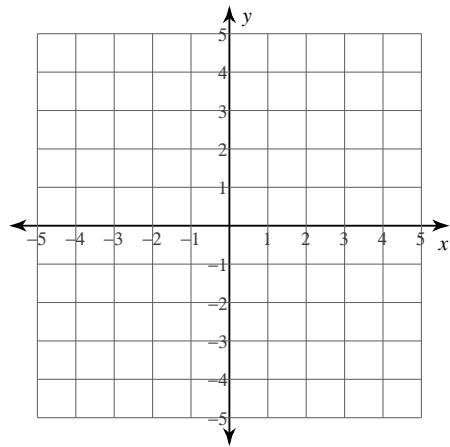
$y = -3x - 4$
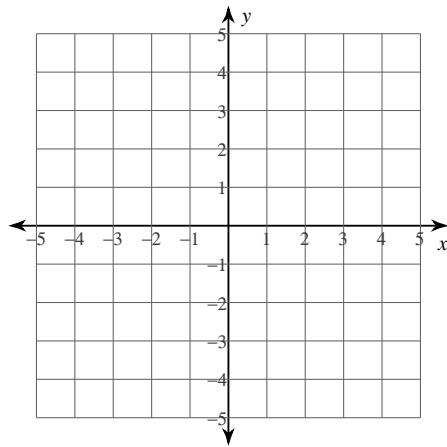
23) $2x - 3y = 6$
    $7x - 3y = -9$
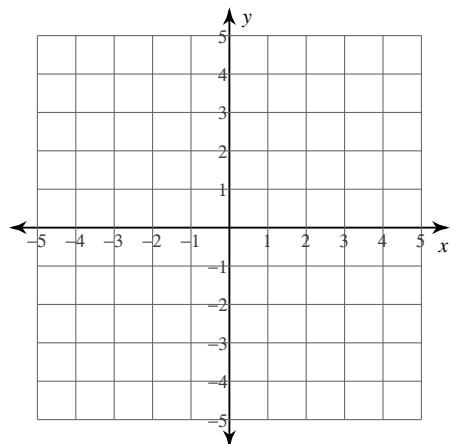
24) $2x + 3y = -6$
    $8x + 3y = 12$
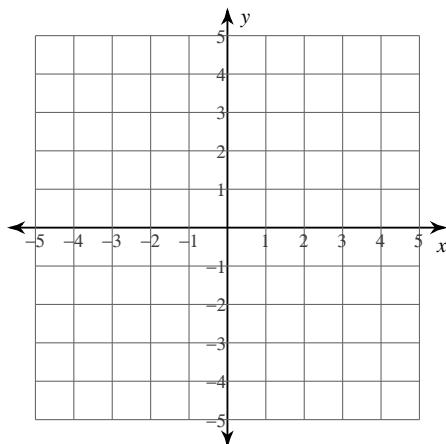
25) $-y = -2 + \dfrac{1}{4}x$

$-8 - 5x = 4y$
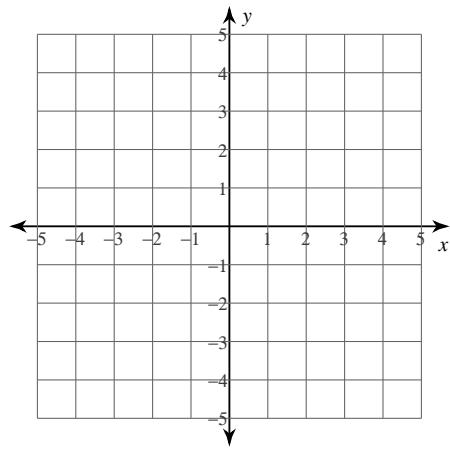
26) $y - 1 + 2x = 0$

$-2y + x = 8$
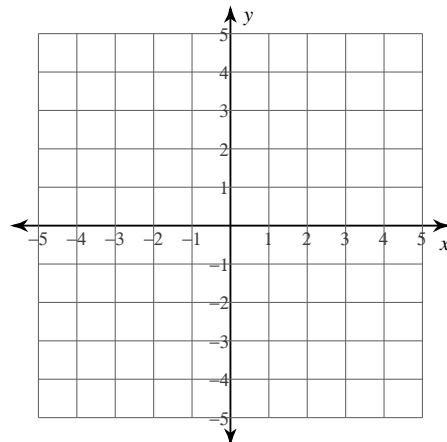
Answers to Assignment (ID: 1)

1) $(3, 1)$

2) $(1, 1)$

3) $(0, -8)$

4) $(-2, 8)$

5) $(2, 3)$

6) $(0, -3)$

7) $(2, -1)$

8) $(-3, 5)$

9) $(-8, -1)$

10) $(-8, 4)$

11) $(-1, -8)$

12) $(1, -8)$

13) $(-7, 2)$

14) $(4, -3)$

15) $(0, 3)$

16) $(-2, -3)$

17) $(1, -3)$

18) $(-2, -4)$

19) $(-1, 5)$

20) $(-2, -2)$

21) $(-3, -1)$

22) $(-2, 2)$

23) $(-3, -4)$

24) $(3, -4)$

25) $(-4, 3)$

26) $(2, -3)$