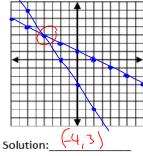
1. Solve by graphing.

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

$$y = -\frac{3}{2}x - 3$$



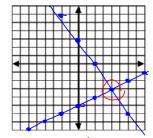
2. Solve by graphing.

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

$$3x + 2y = 6$$

$$-3 \times \qquad -3 \times$$

$$2y = -3 \times + 6$$



Solution: (4, -3)

3. Solve by graphing.

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

$$2x - 3y = 3$$

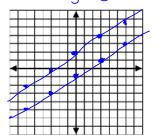
$$-2x$$

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

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

$$-3 = -3$$

$$4 = -2x - 1$$



Ø Solution:

4. Solve by substitution.

$$y = x - 4$$

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

Solution:

$$y = x - 4$$

$$y = -x + 2$$

$$x = 9 - 2y$$

$$3x + 4y = 13$$

$$3(9 - 2y) + 4y = 13$$

$$2x - 4 = 2$$

$$2x - 4 = 3$$

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Solution: (-5, 7)

6. Solve by substitution.

5. Solve by substitution.

$$y = 3x - 2$$

 $3x - 2y = 2$
 $3x - 2(3x - 7) = 2$
 $3x - 6x + 14 = 2$
 $-3x + 14 = 2$
 $-(4 - 14)$
 $-3x = -12$
 $-3x = 4$
 $-3x = 4$

Solution:_ (4,5)

7. Solve by elimination.

$$2x + 5y = 1$$

$$-2x + y = -19$$

$$6y = -18$$

$$y = -3$$

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

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

$$2x = 16$$

$$x = 8$$

Solution:__ (8,-3

8. Solve by elimination.

$$-3(2x+3y=8)$$

$$6x+9y=24$$

$$-6x-6y=-24$$

$$6x+9y=24$$

$$0=0$$

Solution: Infinitely many

Solve by elimination.

$$4(2x + 3y = -14)$$

$$3(5x - 4y = 34)$$

$$8x + (2y = -56)$$

$$15x - (2y = 102)$$

$$23x = 46$$

$$x = 2$$

$$2(2) + 3y = -14$$

$$3y = -18$$

$$y = -1$$

Solution: (2,

$$y = -2x + 7$$

$$x - 2y = 6$$

$$-2y = -x + 6$$

$$-2 = -x + 6$$

$$-2 = 2x - 2$$

$$y = 2x - 2$$

1. Solve by elimination.

$$5(2x - 11y = 15)$$

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

$$|0x - 55y = 75|$$

$$-(0x - 6y = -|4|$$

$$-6(y = 6|$$

$$y = -|$$

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

$$2x + |1| = |5|$$

$$2x + |1| = |5|$$

$$2x = 4$$

$$x = 2$$
12. Solve by substitution.

$$y = -2x + 7$$

$$3x + 2y = 11$$

$$3x + 2(-2x + 7) = |1|$$

$$-|x + |4| = |4|$$

$$-|x + |4|$$

$$-|x +$$

$$y = -2x + 7$$

$$3x + 2y = 11$$

$$3x + 2(-2x + 7) = (1)$$

$$3x - 4x + 14 = 11$$

$$-(x + 14 = 1)$$

$$-(x$$

Solution: (4,-1)

$$y = -2x + 7$$

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

$$-1 = -8 + 7$$

$$-1 = -1$$

$$x - 2y = 6$$

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

Solution:
$$(2,-()$$

14. CHECK #11, by showing work

$$4 + 11 = 15$$

$$15 = 15V$$

$$5x + 3y = 7$$

$$5(2) + 3(-1) = 7$$

$$10 + -3 = 7$$

$$7 = 7V$$

15. CHECK #12, by showing work

below.

$$2x - (1y = 15)$$

 $2(2) - 1((-1) = 15)$
 $4 + 11 = (5)$
 $15 = (5x)$
 $1 = -647$
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Scrambled Answers for #1-9: infinite solns; (4,-3); (4,5); (8,-3); (3,-1); (-5,7); no solns; (-4,3); (2,-6)