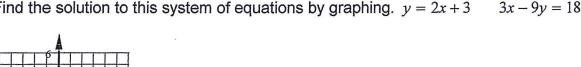
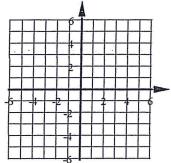
## Algebra 1 Monday, February 8, 2016 Bellwork

1. Find the solution to this system of equations by graphing. y = 2x + 3





For 2 to 5, find the slope and y-intercept of each pair of lines then tell if the system of equations has ONE SOLUTION, NO SOLUTION, or MANY SOLUTIONS.

2. 
$$y = 8x + 7$$

3. 
$$y = -6x + 5$$

4. 
$$y = 2x + 7$$

5. 
$$y = 4x + 7$$

$$8x - 2y = 14$$

$$18x + 3y = 15$$

4. 
$$y = 2x + 7$$
  
 $y + 1 = 2(x - 3)$ 

$$y = -\frac{1}{4}x + 9$$

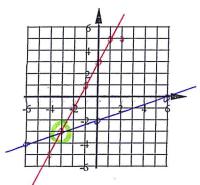
6. You are trying to decide between two health clubs to join. One club charges a \$98 sign-up fee then \$12 per month. The other club charges a \$50 sign-up fee then \$15 per month. After how many months will the total charges for the two clubs be the same?

## Algebra 1 Bellwork Monday, February 8, 2016 1. Find the solution to this system of equations by graphing. y = 2x + 3 y = 2x + 3 3x - 9y = 18 y = -2x + 3 y = -2x + 3

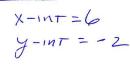


$$v = 2x + 3$$

$$3x - 9y = 18$$



Sd: (-3, -3)



For 2 to 5, find the slope and y-intercept of each pair of lines then tell if the system of equations has ONE SOLUTION, NO SOLUTION, or MANY SOLUTIONS.

2. y = 8x + 7 M = 83. y = -6x + 5 MANY4. y = 2x + 7 8x - 2y = 14 7 = 14 - 8x = -7 + 4x 8x - 2y = 14 9 = 15 - 18x = 5 - 6x 9 = 2x - 7 18x + 3y = 15 9 = 15 - 18x = 5 - 6x 9 = 2x - 7  $9 = -\frac{1}{4}x + 9$   $9 = -\frac{1}{4}x + 9$ 

2. 
$$v = 8x + 7$$
  $M = 8$ 

ONE

3. 
$$y = -6x + 5$$

4. 
$$y = 2x + 7$$

5. 
$$y = 4x + 7$$

$$8x - 2y = 14$$

$$18x + 3y = 15$$

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

$$y = -\frac{1}{4}x + 9$$

6. You are trying to decide between two health clubs to join. One club charges a \$98 sign-up fee then \$12 per month. The other club charges a \$50 sign-up fee then \$15 per month. After how many months will the total charges for the two clubs be the same?

$$M = \frac{1}{100} \text{ m/s} T = 98 + 12 \text{ m}$$
 $T = \frac{100}{100} T = 50 + 15 \text{ m}$ 

$$\frac{48 = 3m}{3} \frac{1}{3}$$

$$\sqrt{M} = 16 \text{ months}$$