1. Find the solution to this system of equations by graphing. y = 2x + 3 3x - 9y = 18



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	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 initiation fee then \$12 per month. The other club charges a \$50 initiation fee then \$15 per month. After how many months will the total charges for the two clubs be the same?

1

ANSWERS

Algebra 1 Bellwork Monday, January 5, 2015 3x - 9y = 18 $\frac{3x - 9y = 18}{7 - 107} = \frac{18}{3} = 6$ $\frac{3x - 9y = 18}{7 - 107} = \frac{18}{3} = 6$ 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. (A10)

Sol (-3,-3)

2. $y = 8x + 7$ ONE	3. $y = -6x + 5$ (mANY)	4. $y = 2x + 7$ SOL	5. $y = 4x + 7$
8x - 2y = 14 SOL	18x + 3y = 15 Sol	y + 1 = 2(x - 3)	$y = -\frac{1}{4}x + 9$
$y = \frac{14-8x}{-2} = -7+4x$	y = 15-18× = 5-6×	¥= 2x-7	ONE
V _	F 3	0	

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

T=	98+12m
T=	50+15m

16 months