## Alg 1 Week 17 Fri Warm UpFinal Starts Next week!

1. Skill 20: Construct a box and whisker plot for a set of data, and find the mean and the range.
65, 66, 59, 61, 67, 70, 67, 66, 69, 70, 63

1.	The	equ	ation	of	line	m	is
			_				

$$2x - 3y = 6$$
. What is:

a) the slope?

b) the y-intercept ?

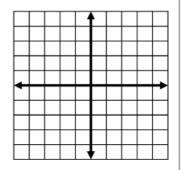
c) the x-intercept?

2. How many solutions does the linear system have?

$$\begin{cases} y = \frac{2}{3}x - 1\\ 6x - 9y = 9 \end{cases}$$

3. Graph the solutions:

$$\begin{cases} y < \frac{1}{2}x + 2 \\ y \le -3x + 3 \end{cases}$$



"Nine pickles and two carrots cost \$7.12. Four Pickles and five carrots cost \$5.64. Find the cost of a pickle and the cost of a carrot."

5. Simplify: 
$$(3x^2 - 4x^3 + 2) - (2x^3 + 3x^2 - 8)$$
 6. Simplify: 
$$\frac{12x^8y^2}{-14x^2y^7}$$

6. Simplify: 
$$\frac{12x^8y^2}{-14x^2v^7}$$

7. Multiply and simplify: 
$$(a-8)(a-4)$$

8. Factor completely:  $x^2 - x - 12$  9. Factor completely:

 $10y^2 - 5y - 15$ 

## A1S2w17d4 Review for final.notebook

10. Solve $(3x-4)(x+5) = 0$	11. What would you add to both sides to complete the square? $x^2 - 6x = 15$	12. Solve $x^2 + 18 = 9x$
Solve the following compound inequality: $7 \le x + 12$ and $x - 2 < -1$	14. Use the quadratic formula to solve: $x^2 + 6x + 2 = 0$	15. A student has scores of 81, 87, 94, and 62. What score must the student earn on the fifth test in order to have an average score of 83?
16. Graph $y = x^2 + 2x - 3$	17. How many times does the graph of $y = 4x^2 + 2x + 3$ intersect the x-axis?	18. The height of a rectangle is three more than twice the base. The area is 119 sq in. What is the height?