

Unit 4 – Day 15 homework  
 STUDY GUIDE FOR UNIT 4 QUIZ #3

#1-3, Given the following information, write the equation in all three forms.

1. Point (0, 2) and Slope 4

1. Point-Slope Form: \_\_\_\_\_  
 $y - y_1 = m(x - x_1)$

Slope-Intercept Form: \_\_\_\_\_  
 $y = mx + b$

Standard Form: \_\_\_\_\_  
 $Ax + By = C$

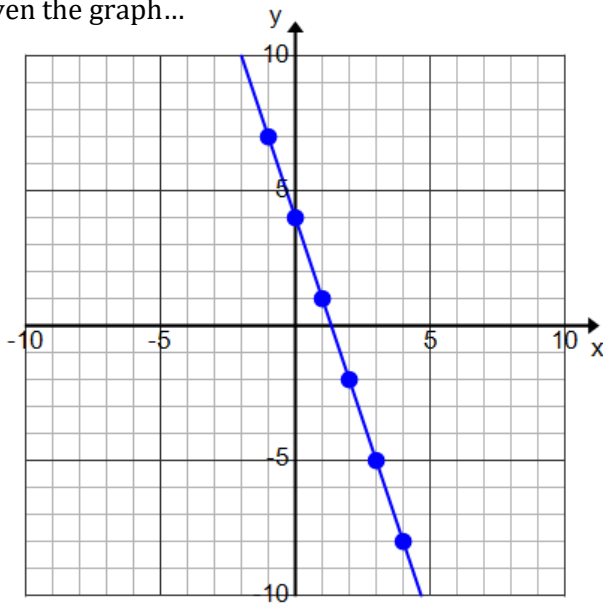
2. Goes through points (-2, 5) and (-4, -5)

2. Point-Slope Form: \_\_\_\_\_  
 $y - y_1 = m(x - x_1)$

Slope-Intercept Form: \_\_\_\_\_  
 $y = mx + b$

Standard Form: \_\_\_\_\_  
 $Ax + By = C$

3. Given the graph...



3. Point-Slope Form: \_\_\_\_\_  
 $y - y_1 = m(x - x_1)$

Slope-Intercept Form: \_\_\_\_\_  
 $y = mx + b$

Standard Form: \_\_\_\_\_  
 $Ax + By = C$

Yes... There is a back! ☺

4. Convert the following equations to Standard Form:

a)  $y - 6 = \frac{1}{2}(x + 4)$

b)  $y = -4x + 10$

5. Write two equations that are equivalent to the following equation:

$$10x + 5y = 15$$

#### APPLICATIONS: STANDARD FORM

6. Miss Palumbo is tracking the food orders for her wedding reception. There are two options: Salmon and Steak. The salmon costs \$9.50 per person and the steak costs \$12.00 per person. The total cost came to \$1220.

a) Define your variables:

b) Write your equation in STANDARD FORM.

x =

y =

c) If 51 guests ordered steak, how many guests ordered the salmon?