

Bell Work:

Identify the domain and range,
and state if it is a function.

$(4, 15)$ $(5, -2)$ $(4, 15)$ $(-62, 15)$
 $(0, 12)$ $(1/2, 92)$ $(0, 0)$ $(-8, 12)$

For Last Time...


New Material

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ALGEBRA 3

Day 16



Chapter 2 Section 3

Linear Equations

Objective: Find the slope of a line, and write an equation in slope intercept form

Linear Equations:

- Slope – Intercept Form: $y = mx + b$
(m is the slope, and b is the y-intercept)

- $slope = m = \frac{rise}{run} = \frac{y_2 - y_1}{x_2 - x_1}$

Write the equation given the following information. Use your graphing calculator to check.

1.) $m = 3/5$ and $b = -4$

2.) slope is -2 and the y -intercept is 5

3.) the line passes through $(0, 3)$ and $(5, 9)$

Graphing (with or without a calculator)

■ With a calculator:

Write the equation in slope-intercept form by solving for y

Trace to 2 points on the graph

Plot the two points on the graph paper

■ Without a calculator:

Write the equation in slope-intercept form by solving for y

Find and plot the y-intercept (0, b)

Find the slope (m) and use it to plot a second point

Draw a line through the two points

** or make a t-chart*

Examples: Graph. *And State Domain and Range*

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

2.) $6x + 2y - 10 = 0$

3.) $y = 2$

For Next Time...

New Material

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Mixed Review

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