7th Pre-Algebra Chapter 8 – Functions Foldable

Your Name:

NAGS

Extra Notes Here:

ing

Graph

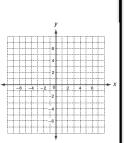
Inequalities

Slope

Algebraic **Equation**

$$y = Mx + b$$
$$Ax + By = C$$

Graph



Sentence

Range

Vertical Line Test

Write the ordered pairs for:

$$h(-2) = 5$$

$$g(7) = -3$$

y = f(x)

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f(x) = -2x + 1 g(x) = 3x - 4

Find f(x) when x = -2

Find x when f(x) = -9

Find f(2) - g(1)

Pick Smart when Graphing!

Which FORM is your equation in?



Graph using the slope and y-intercept!

Ax + By = C

Graph using the *x*- and *y*intercepts!

Slope-Intercept Form y = Mx + b

- 1. Solve for y.
- 2. b is the y-intercept. Graph (0,b)
- 3. Then rise/run the M.

Standard Form Ax + By = C

- 1. Set x = 0, solve for y.
- 2. Set y = 0, solve for x.
- 3. Plot (x,0) and (0,y)

Numerical TABLE

- 1. Create an x- y- table.
- 2. Pick x's, plug in to find y.
- 3. Plot the points.

Slope = M

$$M = \frac{\text{rise}}{\text{run}}$$
, $M = \frac{\Delta y}{\Delta x}$, $M = \frac{y_2 - y_1}{x_2 - x_1}$

Rise rhymes with y's!

Parallel and Perpendicular Slopes

Parallel Slopes – are the SAME!

$$M = M$$

Perpendicular Slopes –

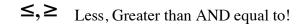
are the negative reciprocal

$$\perp M = -\frac{1}{M}$$

Inequalities

To Graph an Inequality:

- 1. Graph the equation
- 2. Is the line dotted?
- 3. Shade it using a test point!



Less or Greater than ONLY!



