MAKING CONNECTIONS: LINEAR FUNCTIONS

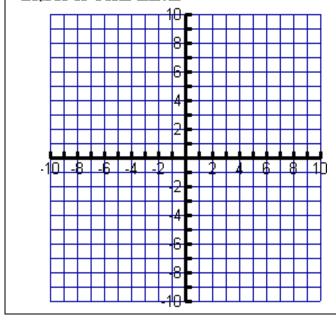
EQUATION: -2x + 4y = 8

TABLE

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Write the equation in slope-intercept form:

GRAPH THE LINE



VERBAL

On the graph of the function, when the value of x increases by ____ unit(s), the value of y ____ by ___ unit(s).

The parent function of the given graph is _____.

Use the answers from above to help you answer the following questions.

1. What are the intercepts of the original graph?

x-intercept:______ y-intercept:_____

2. If the slope of this line is multiplied by -1 and the y-intercept decreases by 2 units, what is the linear equation that represents these changes?

New Equation:_____

3. H	How does the graph of -4x + 2y = 8 compare to the original graph of -2x + 4y = 8?
7	True or False
	a) The slope of the original graph is steeper.
	b) The slope of the original graph is less steep.
	c) The original graph has a greater y-intercept.
	d) The original graph has a smaller y-intercept.
4.	Write the equation of a line that passes through the point (4, 7) and is parallel to the original graph.
	New Equation:
5.	If (6, y) is a point on the graph of the original function, what is the value of y?
	Answer:
6.	Complete the following statement for the equation $y = \frac{2}{3}x - 6$.
	As the value of x increases by unit(s), the value of y by unit(s).