PER.

Review: Parameter Changes



5. The graph of a line that contains the points $(2, 2)$ and $(4, 4)$ is above	Graph the line where the slope is doubled and	
(-3, 2) and (-1, -4) is shown	the y-intercept remains constant.	
6. Josh fills his swimming pool at the rate of 2000 c	allons per bour. There were 3000 gallons of water	
in the pool when he started filling it. The total number of gallons of water in the pool after Josh fills it		
for x hours can be represented by the equation $y = 2000x + 3000$. If Josh adds a second hose, he can fill the pool twice as fast. How will this affect the equation and graph of this situation?		
New Equation:	The line will be A. translated up B. translated down C. steeper D. less steep	
7. The line $y = \frac{3}{4}x - 4$ is drawn on a coordinate grid. A second line is drawn with a slope of 1. Which		
statement best describes the relationship between these two graphs?		
 A. The second line is steeper than the first line. B. The graphs are perpendicular lines. C. The second line is less steep that the first line. D. The graphs are parallel lines. 		
8. The equation $y = 5x - 2$ is graphed. If the value of <i>m</i> in the		
equation is changed to $-\frac{1}{5}$, which of the following I	best 9	
describes the effect on the graph?		
 A. The new line would be translated down. B. The new line would be perpendicular to the original for the perpendicular to the original for the perpendicular to the original for the original fo	original line.	
D. The new line would intersect the original line on the x-axis.		









21. Find the x- and y-intercepts of $6x - 8y = -24$.	22. The table below shows ordered pairs of a
	linear function.
	x y
	-9 4
	-6 2 3 -4
	6 -6
	y
<i>y</i>	
9	
6	2
	<u>-9</u> -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 ≯ x
\leftarrow	
	-6
	What are the x- and v-intercepts of this linear
	function?
x-intercept:; y-intercept:	
23. What is the v-intercept of the function describe	ed by the data below? What is v when x is 16?
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
24. What is the rate of change of $x = 5$?	
25 What function represents the line that contains	the point $(-7, 9)$ and has a slope of -32

26. What is the equation of the line that passes through the point (8, -8) and has a y-intercept of (0, -2)?

27. The distance, *y*, a spring stretches varies directly as the amount of weight, *x*, hanging on it. If the spring stretches 21 inches when a weight of 60 lbs is hanging on it, which of the following represents the equation of direct variation?

A.
$$y = \frac{6}{21}x$$
 C. $y = \frac{21}{6}x$

B.
$$y = \frac{7}{20}x$$
 D. $y = \frac{20}{7}x$

28. Write the equation that describes the line that passes through the point (-6, 2) and is parallel to the line represented by the equation 2x - y = 4.

