INTERPRETING CHANGES IN SLOPE AND INTERCEPTS – DAY 2

The graph of a linear function is shown on the coordinate grid: \Box

Original Equation:

would be the equation of the new line?

Original: y = -3x + 6

New: y = _____

Are the lines parallel? yes / no

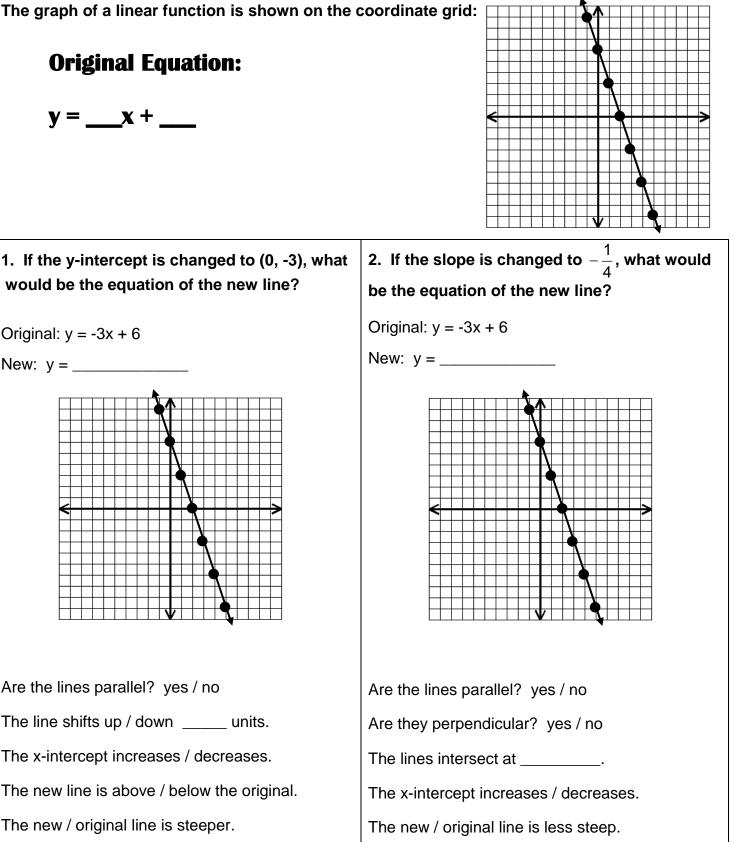
The line shifts up / down _____ units.

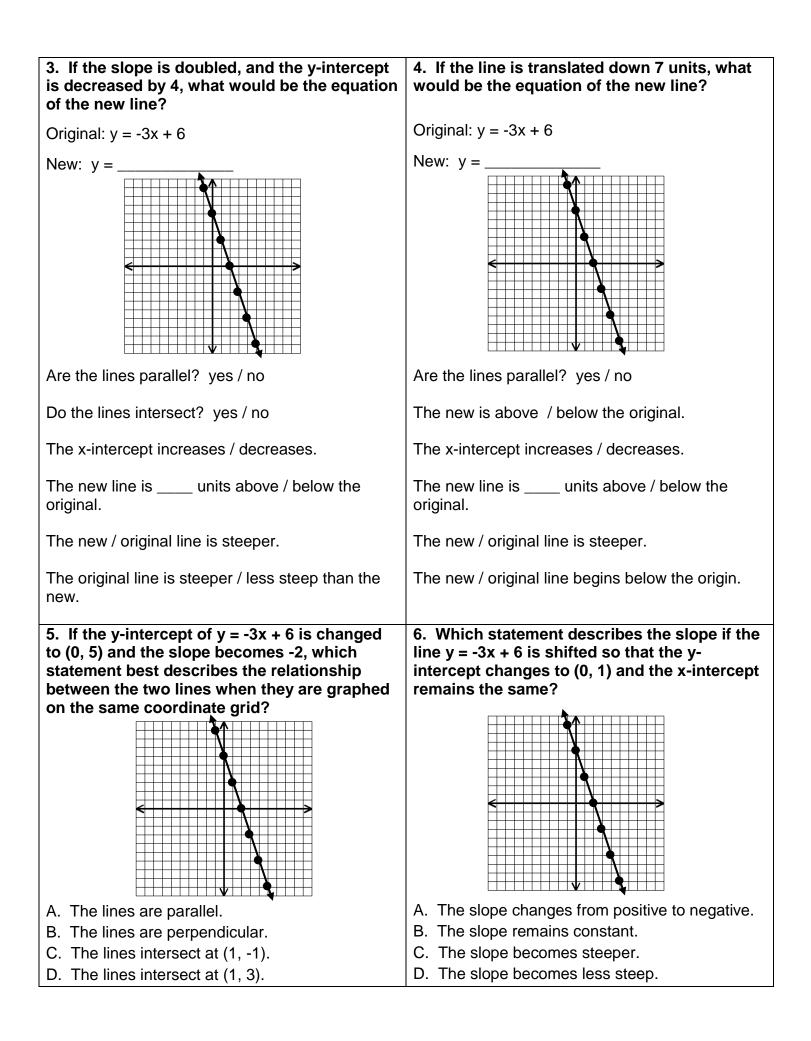
The x-intercept increases / decreases.

The new / original line is steeper.

The new line is above / below the original.

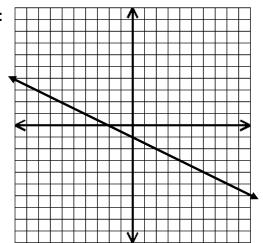
$$\mathbf{y} = \mathbf{x} + \mathbf{x}$$





The graph shown contains the points (8, -5) and (-6, 2):





8. Which best describes the effect on the 7. If the slope of the line is multiplied by -1 and the y-intercept decreases by 2 units, what x-intercept of the graph of $y = -\frac{1}{2}x - 1$ if the would be the linear equation that represents these changes? slope changes to $\frac{1}{2}$? Original: $y = -\frac{1}{2}x - 1$ New: y =A. The x-intercept remains the same, and the The slope changes from _____ to _____ new line is translated upward. Do the lines intersect? yes / no B. The x-intercept becomes negative, and the new line is parallel to the original line. If so, where do they intersect? _____ C. The x-intercept remains the same, and the The x-intercept increases / decreases. new line is translated downward. The new line is _____ units above / below the original. D. The x-intercept becomes positive, and the new line intersects the original line. The new / original line is steeper. The new is less steep than the original. T / F

