Manipulating the Graphs of Functions - Guided Lesson

Complete the following problems:

1) Which statement best describes the effect on the graph of f(x) = 9x - 2.

If the y intercept is changed to + 8?

a. The slope does not change.

b. The new line passes through the origin.

2) The graph of a line that contains the points (-5, -9) and (3, 7) is shown below.

Which best represents this line if the slope is doubled and the y-intercept remains constant?



3) The function y = 3x + 4, which statement best describes the effect of increasing the y-intercept by 4?

a. The new line is parallel to the original.

b. The new line has greater rate of change.

