Name _____ Date _____

Manipulating the Graphs of Functions - Independent Practice Worksheet

Complete all the problems.

1. The function y = 11x - 8, which statement best describes the effect of increasing the y-intercept by 7?

a. The new line is parallel to the original.

b. The new line has greater rate of change.

2. Which statement best describes the effect on the graph of f(x) = 6x - 5

If the y intercept is changed to + 12?

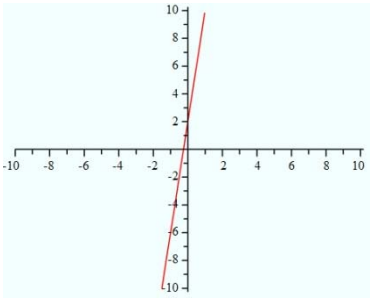
a. The slope does not change.

b. The new line passes through the origin.

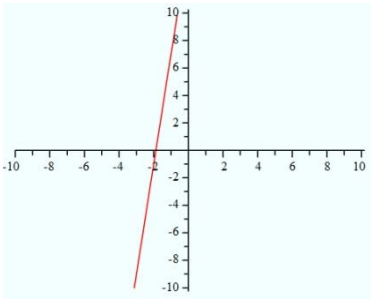
3. The graph of a line that contains the points (-7, -5) and (2, 4) is shown below.

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

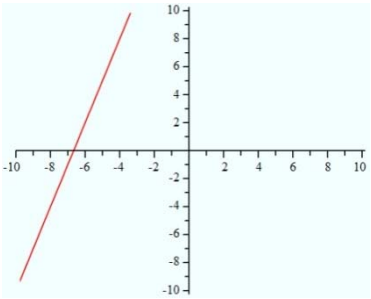
a)



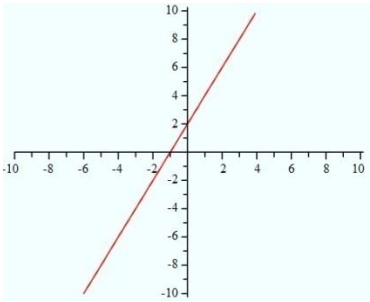
b)



c)



d)



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4. The function y = 3x - 5, which statement best describes the effect of increasing the y-intercept by 7?

a. The new line is parallel to the original.

b. The new line has greater rate of change.

5. Which statement best describes the effect on the graph of f(x) = 8x - 3

If the y intercept is changed to + 5?

a. The slope remains constant.

b. The new line passes through the origin.

6. The function y = 4x - 6, which statement best describes the effect of increasing the y-intercept by 7?

a. The new line is parallel to the original.

b. The new line has greater rate of change.

7. Which statement best describes the effect on the graph of f(x) = 14x - 4

If the y intercept is changed to + 6?

a. The slope stays the same.

b. The new line passes through the origin.

8. Which statement best describes the effect on the graph of f(x) = 5x - 8

If the y intercept is changed to + 2?

a. The slope does not change.

b. The new line passes through the origin.

9. The function y = 10x - 12, 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.

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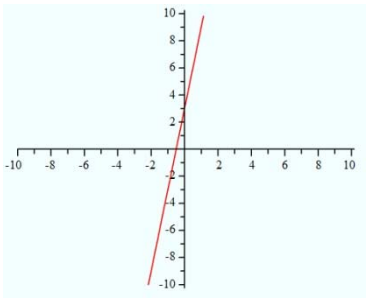
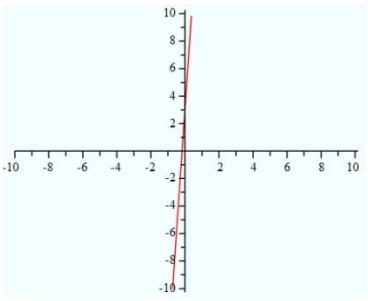
10. The graph of a line that contains the points (-1, -6) and (4, 9) is shown below.

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

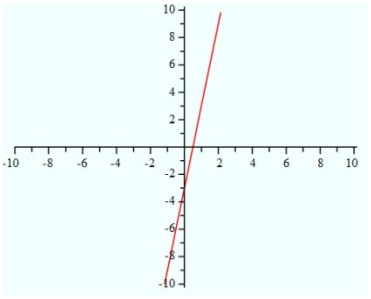
a)



b)



c)



d)