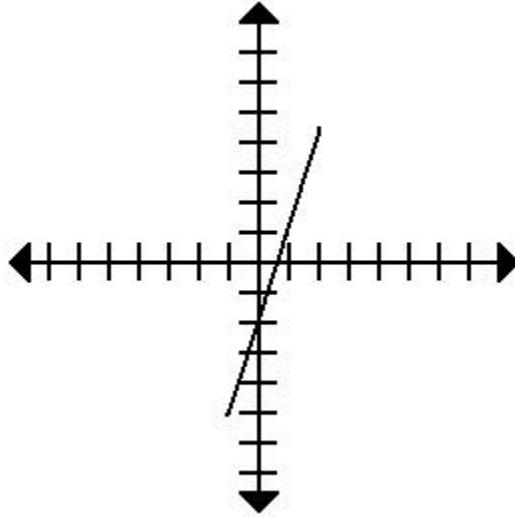


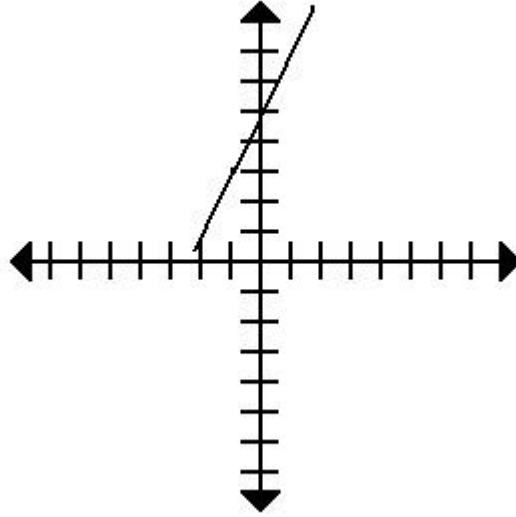
Linear Equations

1. Which of the following linear equations is represented by the line below?



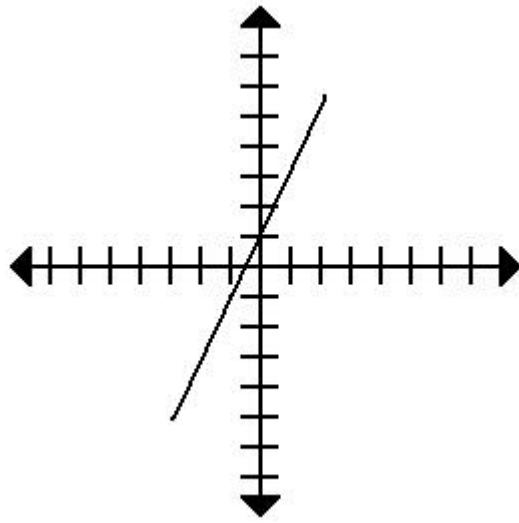
- a) $y = 2x + 2$
b) $y = 2x + 1$
c) $y = 3x - 2$
d) $y = -4x - 2$

2. Which of the following linear equations is represented by the line below?



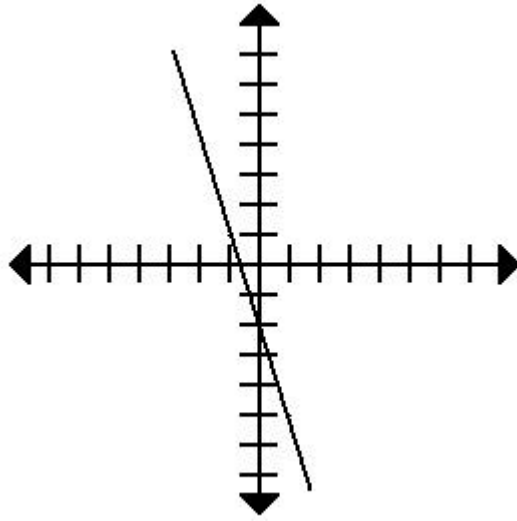
- a) $y = 2x + 2$
- b) $y = 4x - 5$
- c) $y = -3x + 5$
- d) $y = 2x + 5$

3. Which of the following linear equations is represented by the line below?



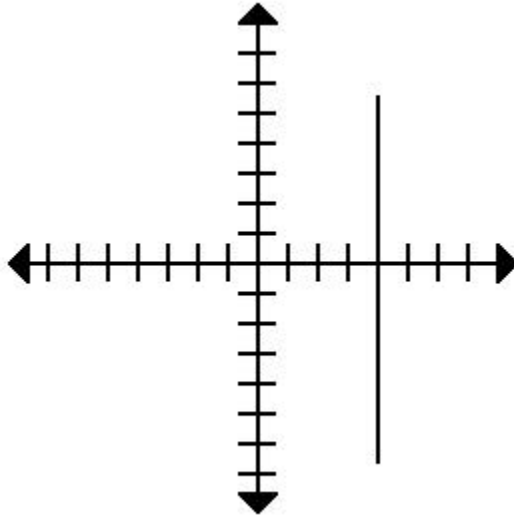
- a) $y = 2x + 1$
- b) $y = x + 4$
- c) $y = -x - 4$
- d) $y = -2x + 1$

4. Which of the following linear equations is represented by the line below?



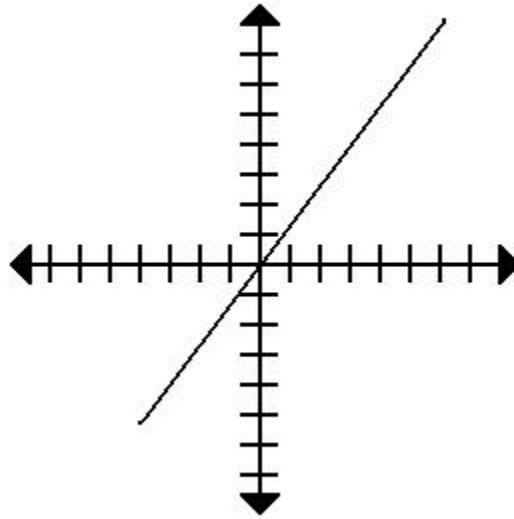
- a) $y = -2x - 3$
- b) $y = -3x - 2$
- c) $y = 2x + 2$
- d) $y = 4x - 2$

5. Which of the following linear equations is represented by the line below?



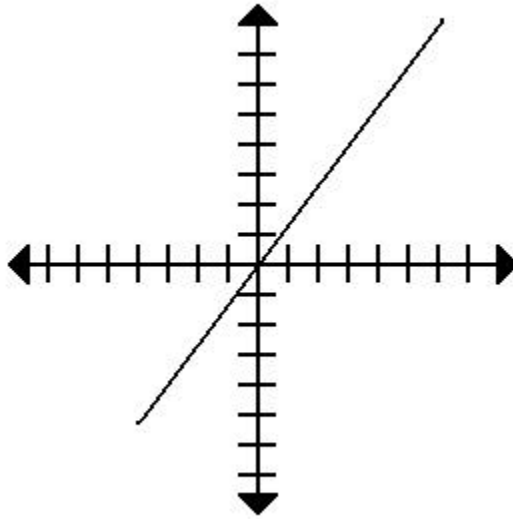
- a) $y = 2x + 4$
- b) $y = 4x$
- c) $x = 4$
- d) $y = 4$

6. Below is a graph of the line $y = x$. How would this line change if the equation became $y = 3x$?



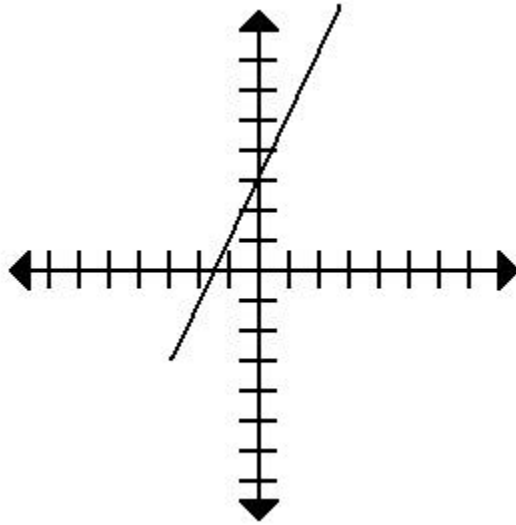
- a) the line would shift 3 spaces up
- b) the slope of the line would increase
- c) the slope of the line would decrease
- d) the line would shift 3 spaces down

7. Below is a graph of the line $y = x$. How would this line change if the equation became $y = x + 4$?



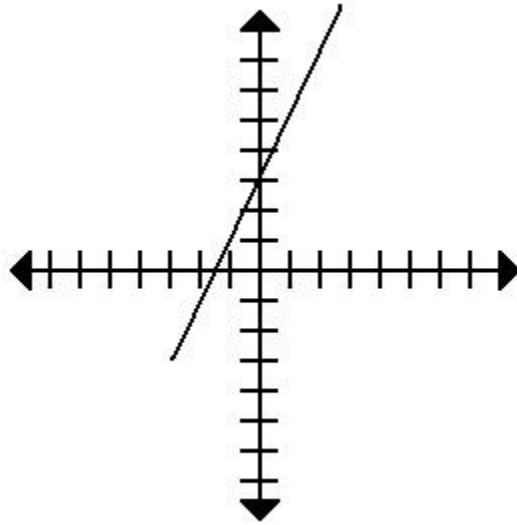
- a) the line would shift 4 spaces up
- b) the slope of the line would increase
- c) the slope of the line would decrease
- d) the line would shift 4 spaces down

8. Below is a graph of the line $y = 2x + 3$. How would this line change if the equation became $y = 2x + 5$?



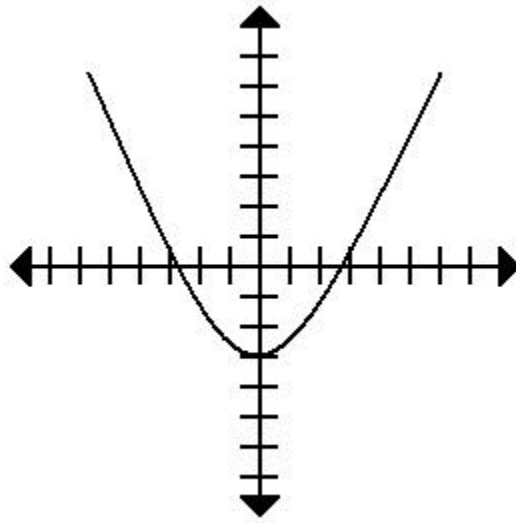
- a) the line would shift 2 spaces up
- b) the slope of the line would increase
- c) the slope of the line would decrease
- d) the line would shift 2 spaces down

9. Below is a graph of the line $y = 2x + 3$. How would this line change if the equation became $y = -3x + 3$?



- a) the line would shift 5 spaces up
- b) the slope of the line would increase
- c) the slope of the line would decrease
- d) the line would shift 5 spaces down

10. Which nonlinear equation best represents the line drawn below?



- a) $y = 2x^2 + 3$
- b) $y = x^2 - 3$
- c) $y = -x - 3$
- d) $y = 2x - 3$