Identify the slope & y-intercept from each equation written in slope-intercept form (y=mx + b).

1. $y = -2x + 6$

slope (m) = _____

y-intercept (b) = _____

2. $y = x - 7$

slope (m) = _____

y-intercept (b) = _____

3. $y = 2x - \frac{5}{2}$

slope (m) = _____

y-intercept (b) = _____

4. $y = 3$

slope (m) = _____

y-intercept (b) = _____

5. $y = 4x$

slope (m) = _____

y-intercept (b) = _____

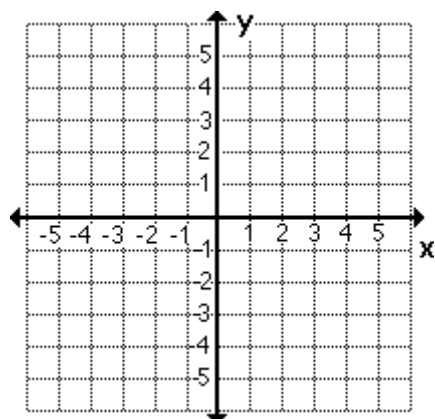6. $y = -\frac{5}{9}x - \frac{3}{4}$

slope (m) = _____

y-intercept (b) = _____

Identify the slope and the y-intercept. Then graph each equation

7. $y = \frac{3}{4}x$
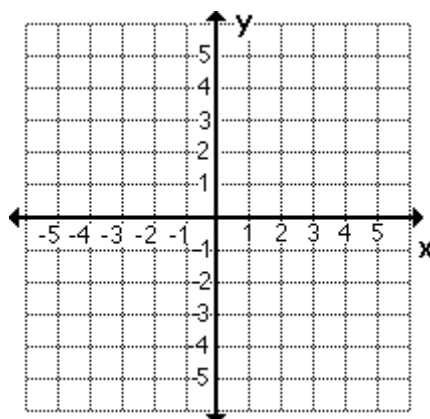
slope (m) = _____

y-intercept (b) = _____

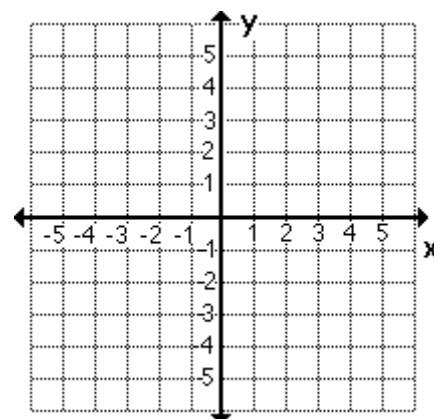8. $y = -3x + 5$

slope (m) = _____

y-intercept (b) = _____

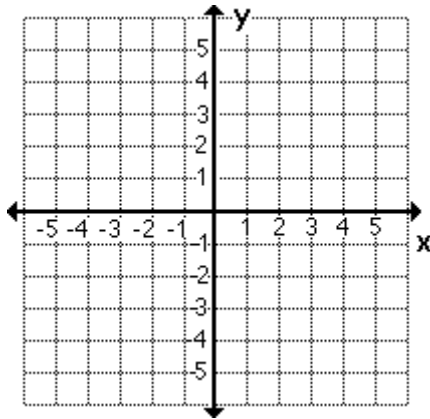9. $y = -\frac{1}{4}x - 2$

slope (m) = _____

y-intercept (b) = _____
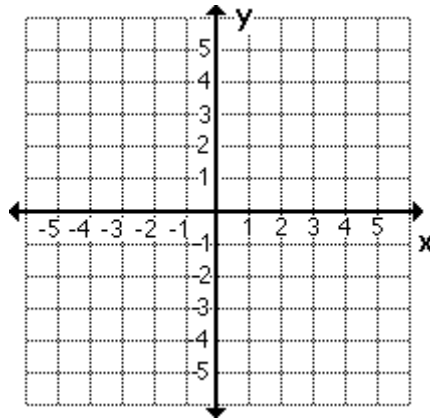
10. $y = -4$

slope (m) = _____

y-intercept (b) = _____
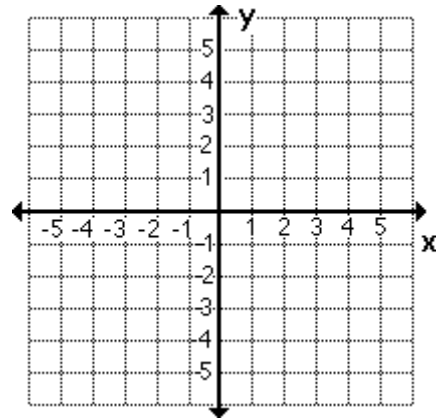
11. $y = x - 3$

slope (m) = _____

y-intercept (b) = _____

12. $x = 2$

slope (m) = _____
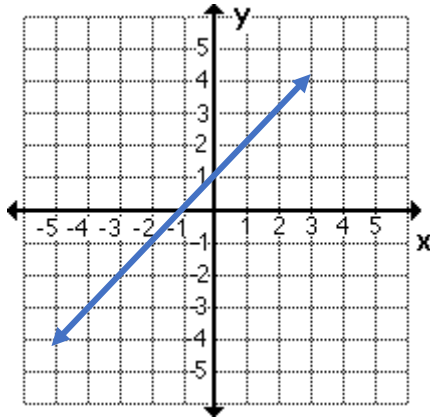
y-intercept (b) = _____

Use the graph to identify the slope and y-intercept. Then write the equation of the line in slope-intercept form.
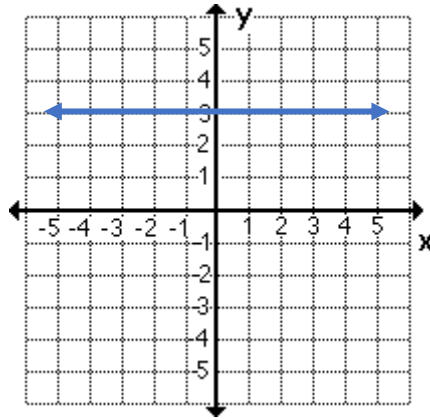
13. slope (m) = _____

y-intercept (b) = _____

equation: _____
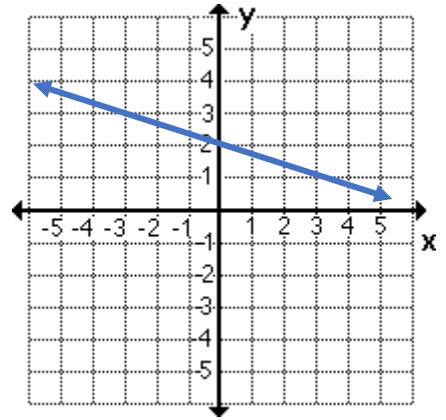
14. slope (m) = _____

y-intercept (b) = _____

equation: _____

15. slope (m) = _____

y-intercept (b) = _____

equation: _____

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16. slope (m) = _____

y-intercept (b) = _____

equation: _____

17. slope (m) = _____

y-intercept (b) = _____

equation: _____

18. slope (m) = _____
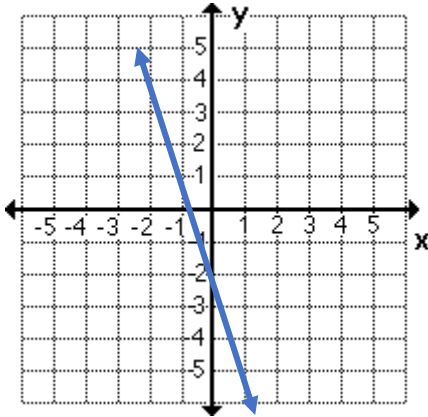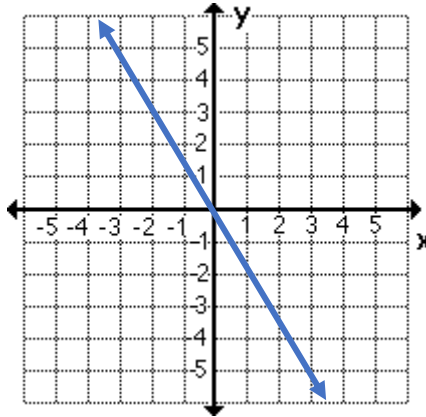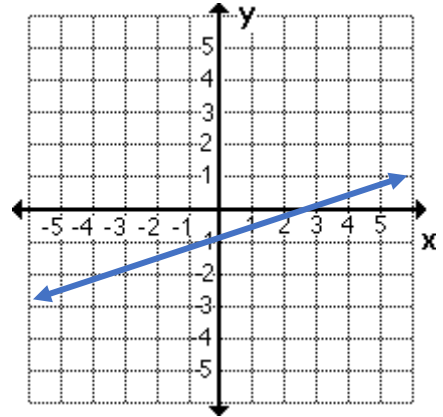
y-intercept (b) = _____

equation: _____

Find the slope of the line through the pair of points.

19. (5, 0) and (−4, 2)

20. (6, −6) and (6, 2)

21. (12, 3) and (−7, −5)