

Practice 5-4

..... Example Exercises

Example 1

Graph each equation.

1. $y = 2x + 1$

2. $y = 3x$

3. $y = -2x + 3$

4. $y = 4x + 2$

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

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

7. $y = -x - 2$

8. $y = -\frac{7}{3}x + 2$

9. $y = -4x + 1$

10. $y = x + 3$

11. $y = \frac{1}{3}x - 3$

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

Example 2

Rewrite each equation in slope-intercept form. Then graph each equation.

13. $y + 4 = 3x$

14. $y - 5x = 6$

15. $y = -5 + 2x$

16. $y + x = -4$

17. $y + \frac{4}{3}x = 1$

18. $y - \frac{1}{4}x = 3$

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

20. $y - 5 = \frac{5}{4}x$

21. $y - 3x = 0$

22. $y - 5 = x$

23. $y + \frac{1}{4}x = 2$

24. $y - \frac{7}{4}x = -2$

Example 3

Write an equation of a line with the given slope and y-intercept.

25. $m = 3, b = 2$

26. $m = -4, b = -3$

27. $m = \frac{5}{3}, b = -7$

28. $m = -\frac{3}{7}, b = 5$

29. $m = -2, b = 0$

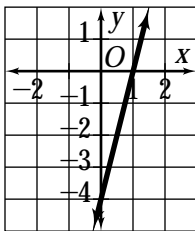
30. $m = \frac{1}{2}, b = 4$

31. $m = -\frac{1}{4}, b = 0$

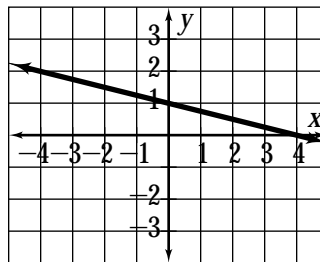
32. $m = 6, b = -4$

Find the slope and y-intercept of each line. Write the equation of each line.

33.



34.



35.

