

Practice 2-3**Example Exercises****Example 1****Graph each line.**

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| 1. $y = 2x - 1$ | 2. $y = \frac{2}{3}x + 3$ | 3. $y = \frac{1}{4}x + 2$ |
| 4. $y = 3x + \frac{1}{2}$ | 5. $y = -\frac{3}{2}x - 1$ | 6. $y = 2x + 1$ |
| 7. $y = -\frac{1}{2}x + 1$ | 8. $y = -x + 2$ | 9. $y = -\frac{1}{4}x - 1$ |
| 10. $y = x + 2$ | 11. $y = 3x$ | 12. $y = 3$ |
| 13. $y = 3x - 1$ | 14. $y = -2$ | 15. $y = -x - 1$ |

Example 2**Find the slope of a line perpendicular to each line.**

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| 16. $y = 4x + 7$ | 17. $y = \frac{2}{7}x - 1$ | 18. $y = -\frac{1}{5}x + 2$ |
| 19. $y = -4x + 7$ | 20. $y = \frac{2}{7}x + 1$ | 21. $y = -\frac{1}{8}x - 3$ |
| 22. $y = x + 11$ | 23. $y = -3x$ | 24. $y = x + 9$ |
| 25. $y = -2x + 1$ | 26. $y = \frac{3}{5}x + 2$ | 27. $y = -\frac{5}{3}x - 1$ |
| 28. $y = -x + 4$ | 29. $y = -\frac{1}{2}x + 8$ | 30. $y = \frac{3}{4}x - 5$ |
| 31. $y = x + 11$ | 32. $y = \frac{5}{4}x - 5$ | 33. $y = -\frac{3}{2}x - 1$ |

From the given slopes, determine if the corresponding lines are *parallel*, *perpendicular*, or *neither*.

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| 34. $-\frac{1}{2}$ and -2 | 35. $\frac{1}{5}$ and 0.2 | 36. $\frac{2}{7}$ and -3.5 |
| 37. $\frac{1}{3}$ and -3 | 38. -8 and 8 | 39. $\frac{1}{4}$ and 4 |
| 40. $\frac{5}{8}$ and $-\frac{8}{5}$ | 41. -2.0 and -2 | 42. $\frac{4}{5}$ and $\frac{5}{4}$ |
| 43. $-\frac{1}{4}$ and -0.25 | 44. 0 and 1 | 45. $.3$ and -3 |
| 46. $\frac{1}{3}$ and 3 | 47. $\frac{5}{3}$ and $-\frac{3}{5}$ | 48. 1 and 1 |
| 49. $2\frac{1}{5}$ and 2.2 | 50. $2\frac{1}{2}$ and $-\frac{2}{5}$ | 51. 1.5 and $1\frac{1}{2}$ |