

## Graphing Basic Equations

Graph each equation. You must sample at least 5 points for each linear equation. You must sample at least 8 points for each absolute value equation.

1.  $y = x + 2$

2.  $y = 7$

3.  $y = |x| + 2$

4.  $y = |x| - 5$

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

6.  $y = x - 5$

7.  $y = |x + 2|$

8.  $y = -x$

9.  $y = -x + 4$

10.  $y = -|x|$

11.  $y = 3x$

12.  $y = 4 - 2x$

13.  $y = -4$

14.  $y = |x - 3|$

15.  $y = 0$

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

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

18.  $y = |x| + x$

19.  $y = \frac{2x}{3}$

20.  $y = 6 - 3x$

21.  $y = |2x - 6| + x$

22.  $y = 3\frac{1}{2}$

23.  $y = 4x - 5$

24.  $y = -2x + 6$

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

26.  $y = 3x - 7$

27.  $y = -4$

28.  $y = |x + 1| + 2x$

29.  $y = 5x$

30.  $y = -5x$

31.  $y = \left| \frac{x + 4}{2} \right|$

32.  $y = |x + 5| - 10$

33.  $y = 1$

34.  $y = x$

35.  $y = -x$

36.  $y = -x + 4$

37.  $y = -x - 4$

38.  $y = |x + 3| - 2x$

39.  $y = -|x| + x + 8$

40.  $y = \frac{x}{4}$

41.  $y = \frac{2x}{5}$

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

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

44.  $y = |x| - |x + 3|$

45.  $y = |2x| + |x + 5| - 7$

46.  $y = -5$

47.  $y = -5x + 6$

48.  $y = |4 - x| - |2x|$