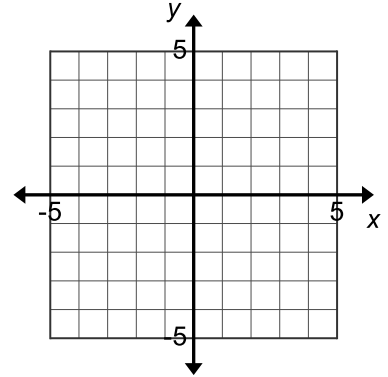# HW 2-3: Horizontal/Vertical Lines & T-Charts

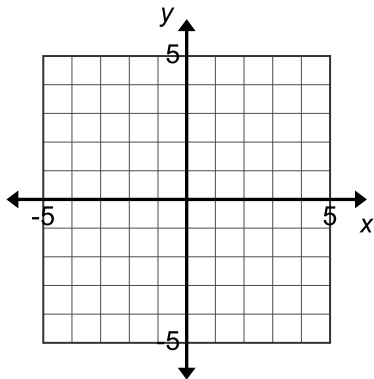**Graph each equation.**

1. $y = 4$
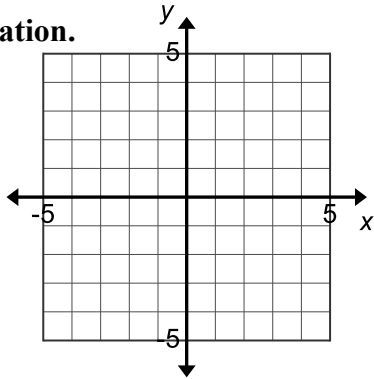
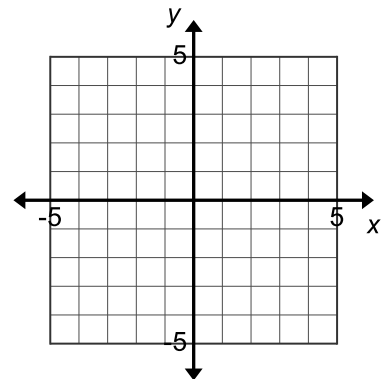2. $x = -3$

3. $x = 4$

4. $y = -2$

Find the slope of each equation <u>from a graph</u> that you create.

5. $y = 2$

    Slope = _____

6. $x = -4$

    Slope = _____

7. $y = -4$

    Slope = _____

8. $x = 2$

    Slope = _____

9. $x = 1$

    Slope = _____

10. $y = -3$

    Slope = _____

Fill in the blank.

11. **A horizontal line has a slope of**

    _____ .

12. **A vertical line has a slope of**

    _____ .

    From the pattern that you have already observed, determine whether the line formed by the following two points is horizontal or vertical.

13. $(-11, 6), (-3, 6)$

14. $(14, 15), (13, 15)$

15. $(1, 8), (1, 14)$

Complete a t-chart with four solutions for each equation. Then identify the slope of each equation. (Hint: you may need to use inverse operations to help solve/create your t-chart.)

16. $y=-2x+6$

x	y
−2	
−1	
0	
1	

Slope: _____

17. $y=-\dfrac{3}{4}x+2$

x	y
−4	
0	
4	
8	

Slope: _____

18. $x+y=6$

x	y
−1	
0	
1	
2	

Slope: _____

19. $y=10x-33$

x	y
−2	
0	
2	
4	

Slope: _____

20. $y=5x$

x	y
−2	
−1	
0	
1	

Slope: _____

21. $y=-2x+6$

x	y
−1	
0	
1	
2	

Slope: _____

22. $x-y=2$

x	y
−1	
0	
1	
2	

Slope: _____

23. $y=\dfrac{1}{2}x+7$

x	y

Slope: _____

24. $y=x$

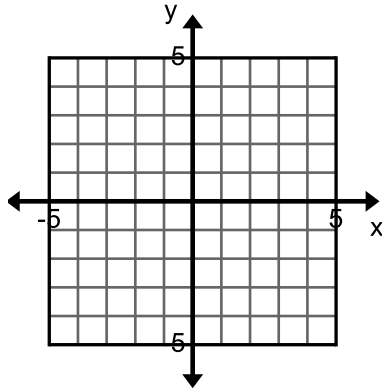| x	y

Slope: _____

Create the following tables and graph each equation. Identify the slope for each equation.

25. $y = -2x$

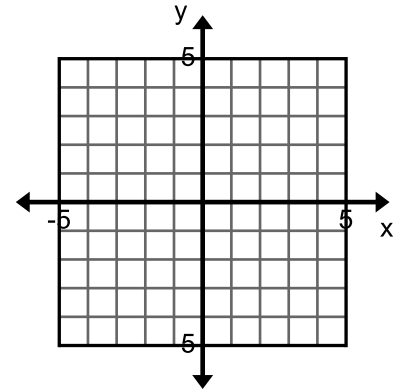| x	y

Slope = _____

26. $y = -2$

x	y
-2	
-1	
0	
1	
2	

Slope = _____

27. $y = -x$

x	y
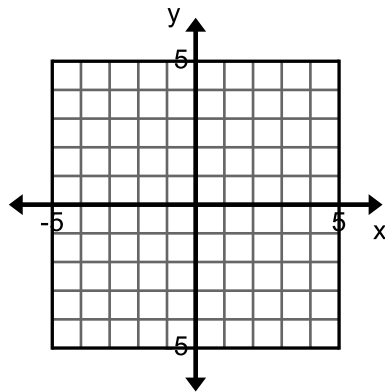
Slope = _____

28. $y = \dfrac{2}{3}x - 4$

x	y
-3	
-2	
0	
2	
3	
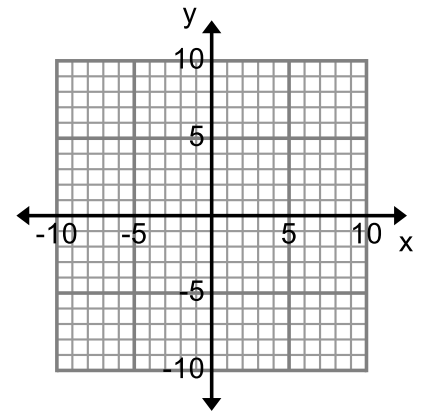
Slope = _____

Identify the slope given two points or a graph.

29.
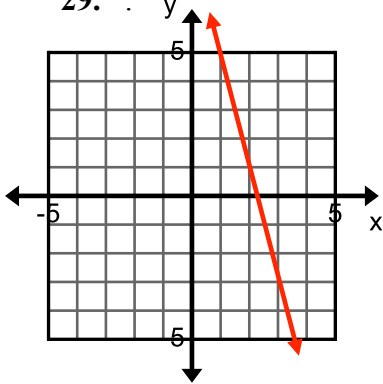
30.
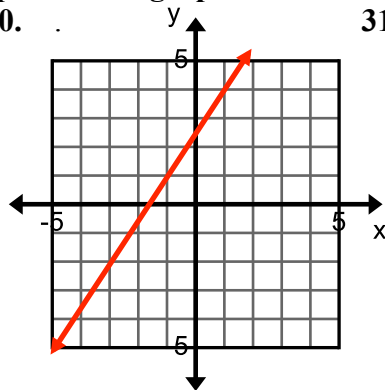
31. (16, -5) and (4, 5)

32. (-9, 8) and (-3, 8)

Solve:

33. $-4y - 9 < 15$

34. $\dfrac{m + -7}{6} \geq -10$