

Pre-Algebra
Chapter 8 Review

Name _____ Date _____ Per _____

Remember to show your work and check it.

Identify the domain and range of the relation.

1) $(-7,2), (-6,0), (-5,-1), (1,10)$

1) Domain: _____

Range: _____

2)

X	1	2	3	4	5
y	10	7	5	3	6

2) Domain: _____

Range: _____

Tell whether the ordered pair is a solution of the equation.

3) $y = x$ $(3, -3)$

4) $2x - y = 5$ $(4,3)$

3) _____

4) _____

5) $y = 3x + 7$ $(-2,1)$

6) $3y + x = 18$ $(4,4)$

5) _____

6) _____

Find the value of y when x has the given value.

7) $y = 3x + 16$; $x = 4$

8) $y = 4x - 12$; $x = 6$

7) _____

8) _____

9) $y = 22 - 5x$; $x = 3$

10) $y = 8 + 6x$; $x = -3$

9) _____

10) _____

Write the equation in slope-intercept form. (Solve for y)

11) $x + y = 8$

12) $2x + 2y = 4$

11) _____

12) _____

13) $2x + 3y = 2$

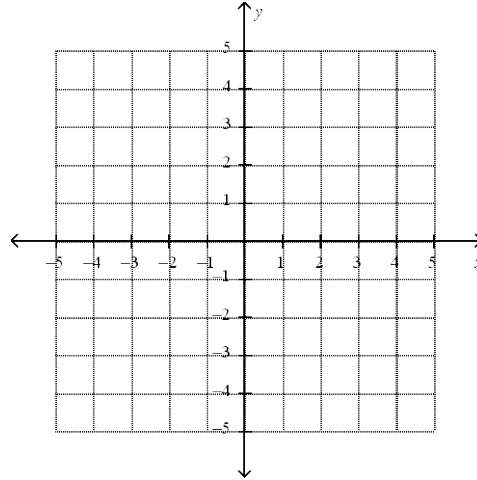
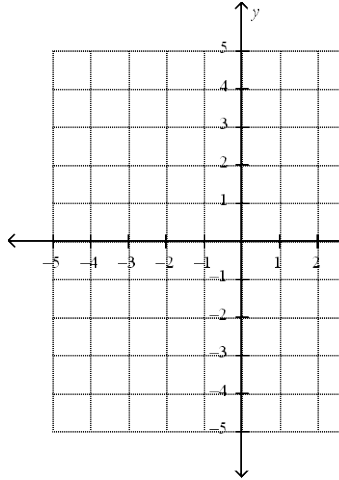
14) $-x + y = 10$

13) _____

Graph the equation.

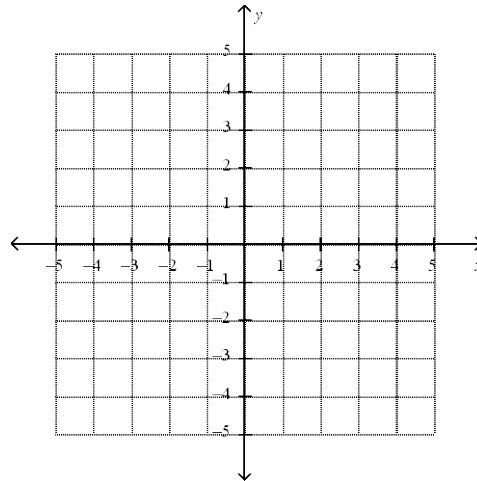
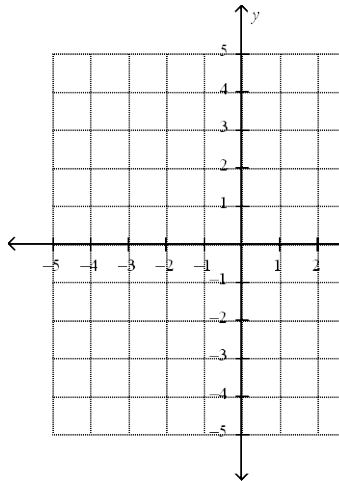
15) $y = x + 2$ 16)

$y = 4$



17) $x = -5$ 18)

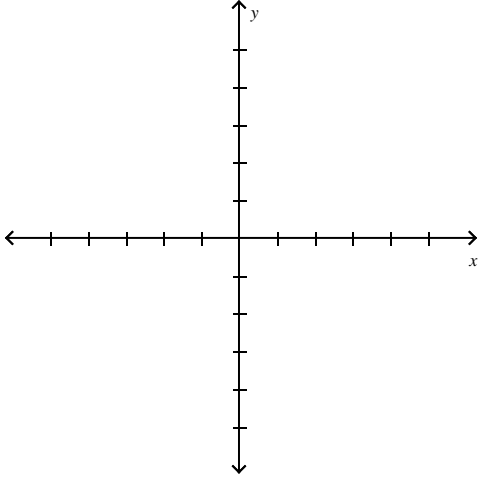
$y = -x + 4$



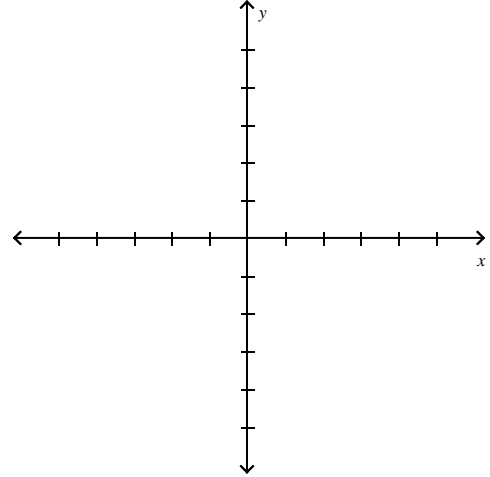
Remember to show your work and check it.

Draw an example of:

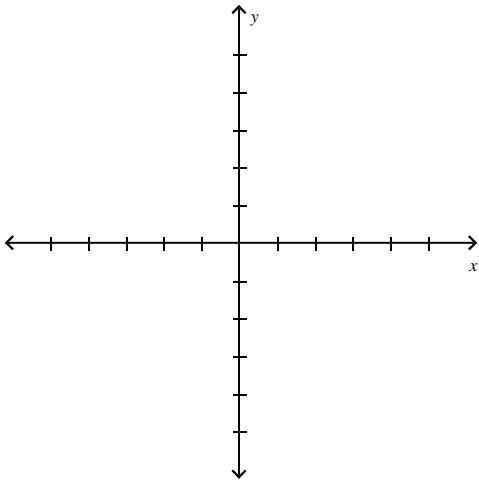
19. A zero slope



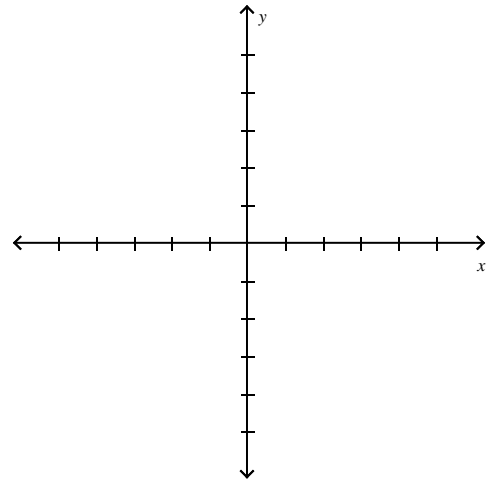
20. An undefined slope



21. A negative slope



22. A positive slope



Find the slope of then line through given points given the equation

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

23. $(-3, -6)$ and $(15, 16)$ 24. $(7, 6)$ and $(12, -14)$ 23. _____

24. _____

25. $(-5, -4)$ and $(-5, -7)$ 26. $(3, 9)$ and $(16, 9)$ 25. _____

26. _____

Identify the slope and y-intercept

27. $y = -6$ 28. $y = 2x$ 27. slope = _____

y-int = _____

28. slope = _____

y-int = _____

29. $y - 6x = -10$ 30. $y = -\frac{2}{5}x + 9$ 29. slope = _____

y-int = _____

30. slope = _____

y-int = _____

Write the equation of the line.

31. slope = -10 32. slope = $\frac{7}{9}$ 31. _____

$y - \text{intercept} = 8$ $y - \text{intercept} = -2$ 32. _____

33. $(8, 14)$ and $(0, 24)$ 34. $(0, -13)$ and $(-19, 9)$ 33. _____

34. _____