

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)  $2x + 3y = 2$

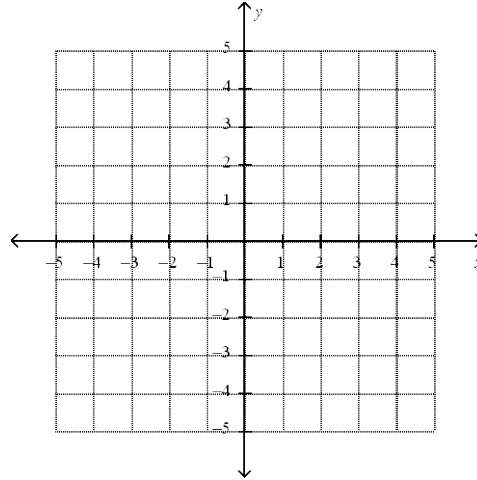
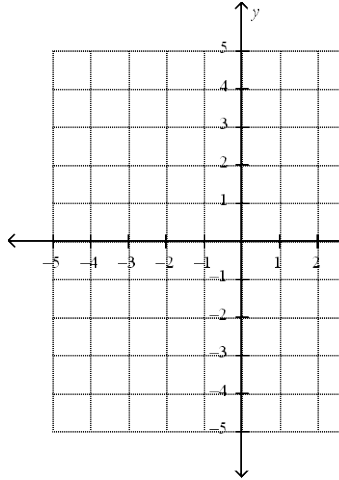
14)  $-x + y = 10$

13) \_\_\_\_\_

Graph the equation.

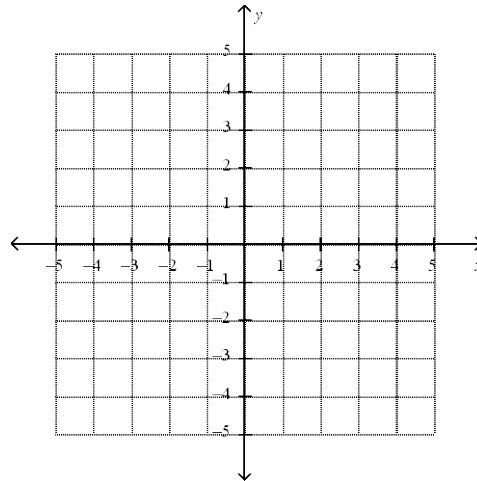
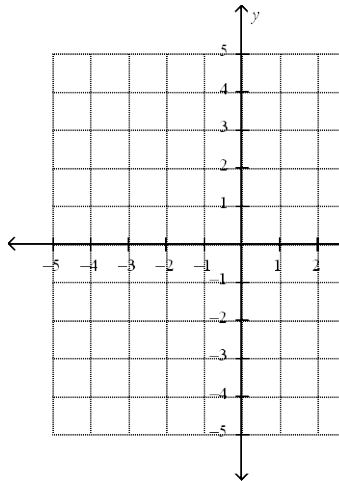
15)  $y = x + 2$       16)

$y = 4$



17)  $x = -5$       18)

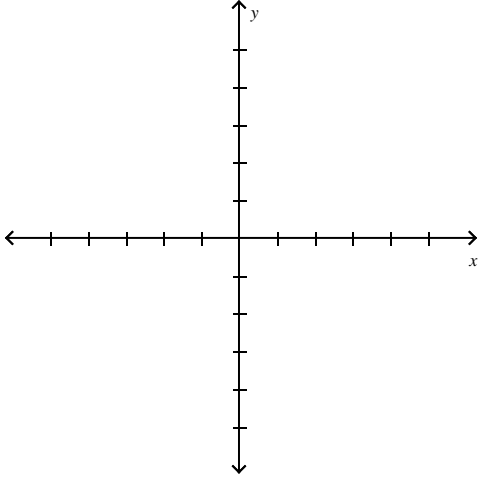
$y = -x + 4$



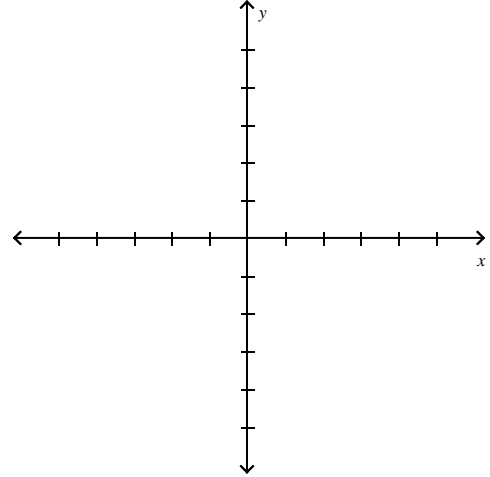
Remember to show your work and check it.

Draw an example of:

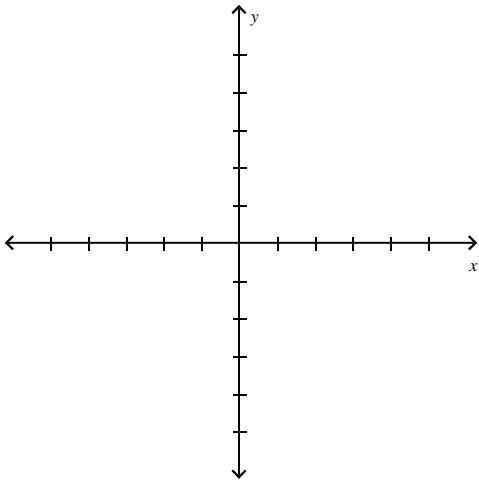
19. A zero slope



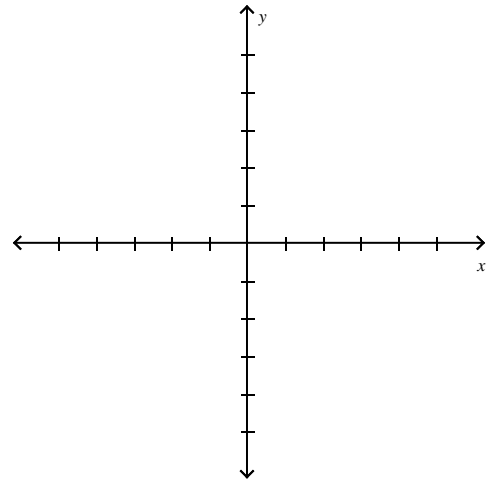
20. An undefined slope



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. \_\_\_\_\_