

Assignment

Solve each equation.

1) $6(-3a - 1) + a = -3(12a + 6) + 12$
 {0}

3) $12x + 11 + 4 = 10(-9x + 9) - 3(-8x - 1)$
 {1}

5) $4(1 - 2m) = 6(-2m - 2)$
 {-4}

7) $8(10 + 3x) - 10 = -12(11 - 2x)$
 No solution.

9) $-6n - 8 = -3(9 + 2n)$
 No solution.

11) $-2(n + 7) + 5 = -(n - 9)$
 {-18}

13) $-(n + 8) = 7(n + 8)$
 {-8}

2) $8(10k - 6) = 8(12k - 8)$
 {1}

4) $8(11k - 3) = -8(2 - 11k)$
 No solution.

6) $-10(b - 8) = 3 - 9(b - 11)$
 {-22}

8) $6(8x - 2) - 10(3x + 1) = 6 - 12x + 2x$
 {1}

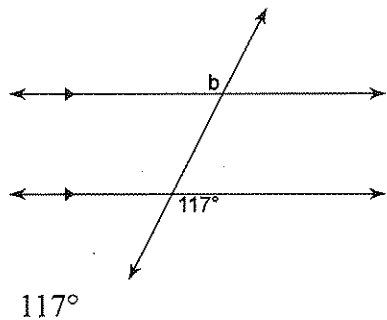
10) $-6(1 + 3p) = -3(p - 3)$
 {-1}

12) $-5(k + 5) - 3(-k - 4) = 4k - 3 - 5k$
 {-10}

14) $3(m + 9) = -2(-7 - 8m)$
 {1}

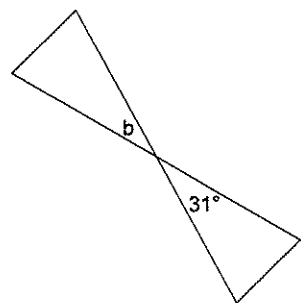
Find the measure of angle b.

15)



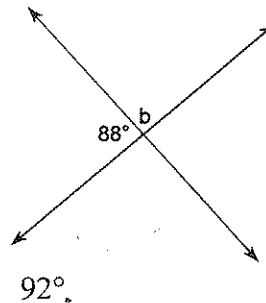
117°

17)



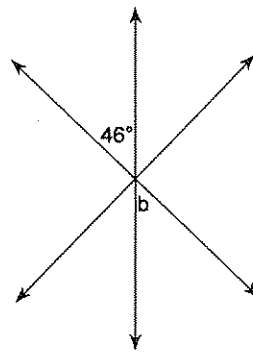
31°

16)



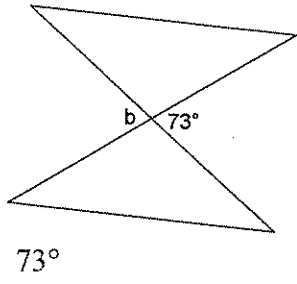
92°

18)

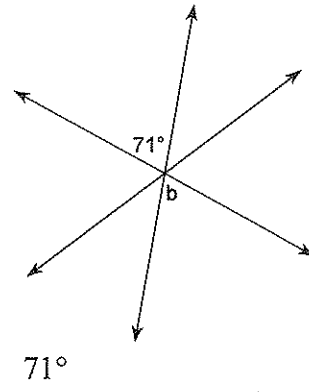


46°

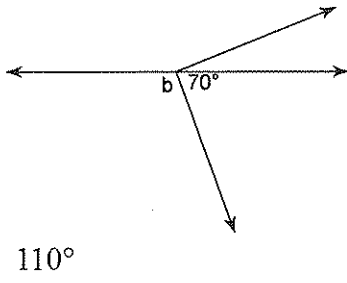
19)



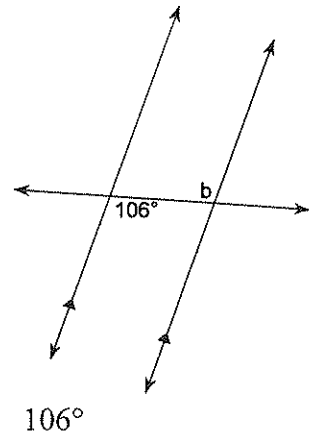
20)



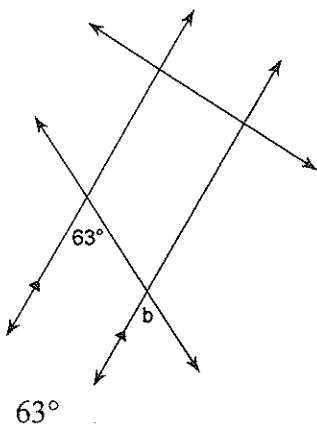
21)



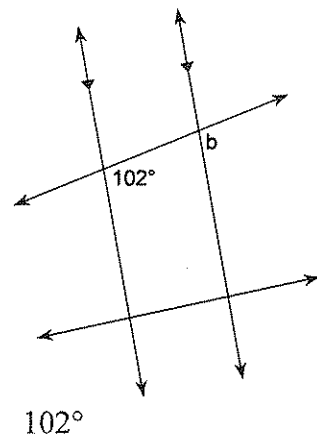
22)



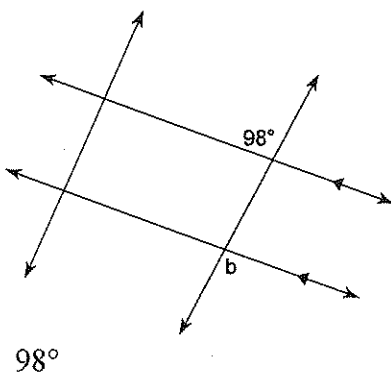
23)



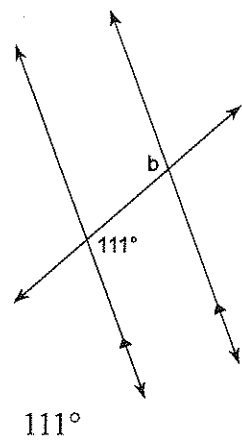
24)



25)



26)



Find each missing length to the nearest tenth.

27) $a = 2.7$, $b = 3.1$, $c = ?$

4.1

29) $a = ?$, $b = 3.3$, $c = 12.3$

11.8

31) $a = ?$, $b = 10.6$, $c = 13.7$

8.7

33) $a = 12.1$, $b = ?$, $c = 13.5$

6

28) $a = 5.4$, $b = 2.6$, $c = ?$

6

30) $a = 7.6$, $b = 10.5$, $c = ?$

13

32) $a = 9.8$, $b = 13.1$, $c = ?$

16.4

34) $a = 5.2$, $b = 1.4$, $c = ?$

5.4

Simplify. Write each answer in scientific notation.

35) $(2.1 \times 10^1)(6.2 \times 10^{-5})$

1.302×10^{-3}

37) $(3.59 \times 10^5)(2.8 \times 10^{-5})$

1.005×10^1

39) $(3.62 \times 10^2)(3.72 \times 10^{-2})$

1.347×10^1

36) $(6 \times 10^{-1})(3.9 \times 10^{-2})$

2.34×10^{-2}

38) $(9.4 \times 10^2)(7.45 \times 10^{-3})$

7.003×10^0

40) $(2 \times 10^{-4})(3.7 \times 10^0)$

7.4×10^{-4}

Find the slope of the line through each pair of points.

41) $(-1, -2)$, $(3, -9)$ $-\frac{7}{4}$

42) $(11, 9)$, $(-11, 4)$ $\frac{5}{22}$

43) $(5, 7)$, $(2, -18)$ $\frac{25}{3}$

44) $(1, 12)$, $(2, -10)$
 -22

45) $(7, 14)$, $(7, -1)$
Undefined

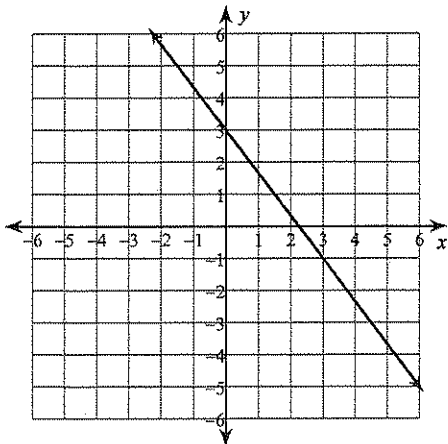
46) $(8, -2)$, $(12, -1)$ $\frac{1}{4}$

47) $(-2, 3)$, $(-13, -7)$ $\frac{10}{11}$

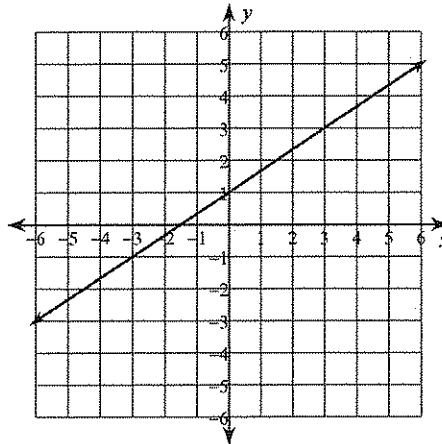
48) $(13, -2)$, $(13, 20)$
Undefined

Sketch the graph of each line.

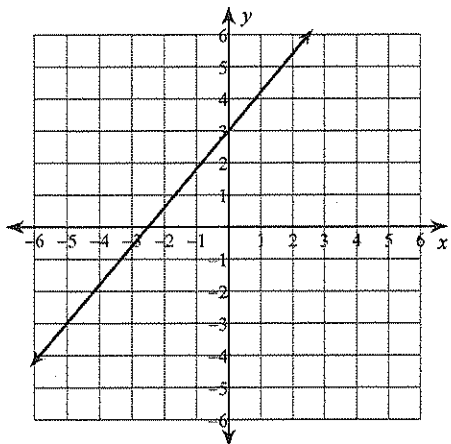
49) $y = -\frac{4}{3}x + 3$



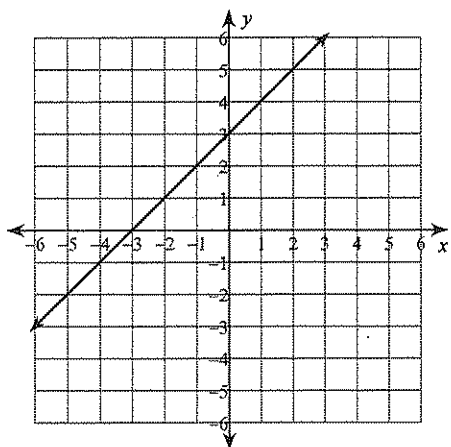
50) $y = \frac{2}{3}x + 1$



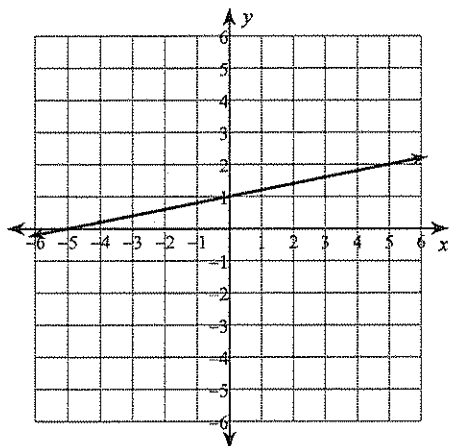
51) $y = \frac{6}{5}x + 3$



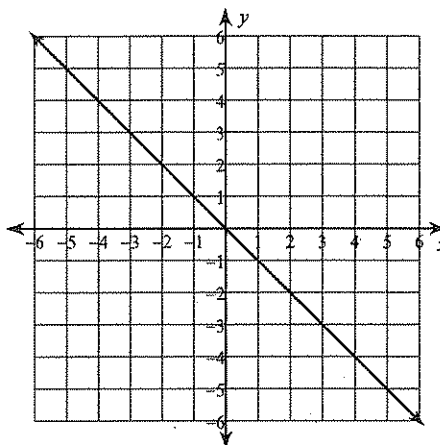
53) $y = x + 3$



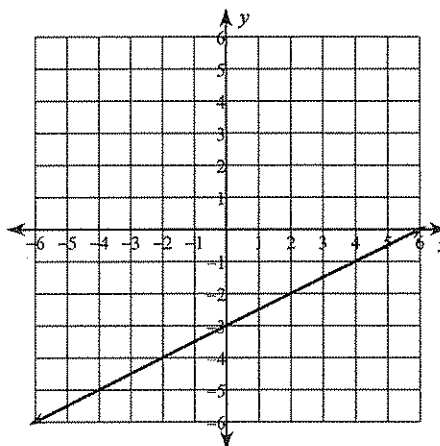
55) $y = \frac{1}{5}x + 1$



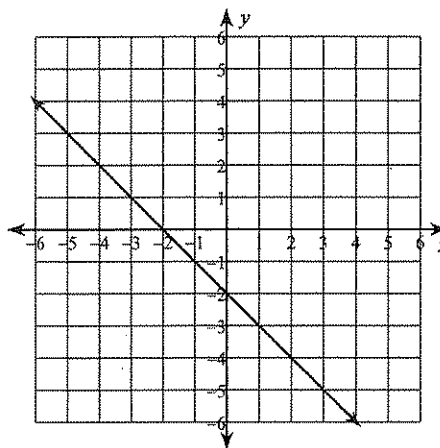
52) $y = -x$



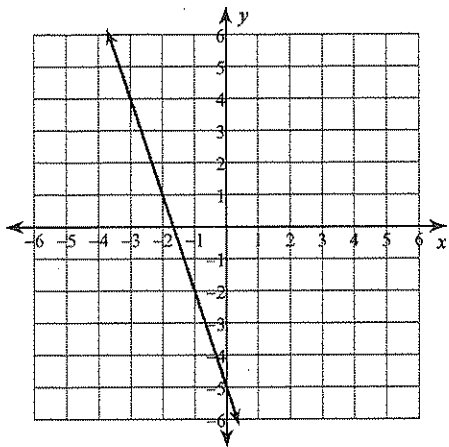
54) $y = \frac{1}{2}x - 3$



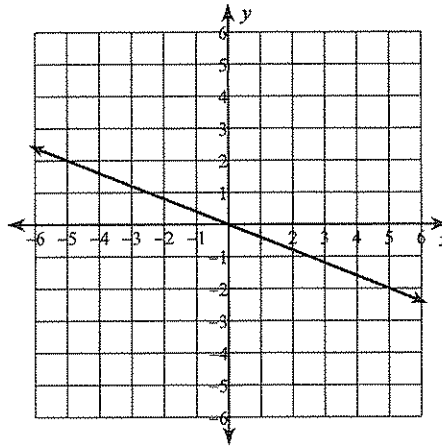
56) $y = -x - 2$



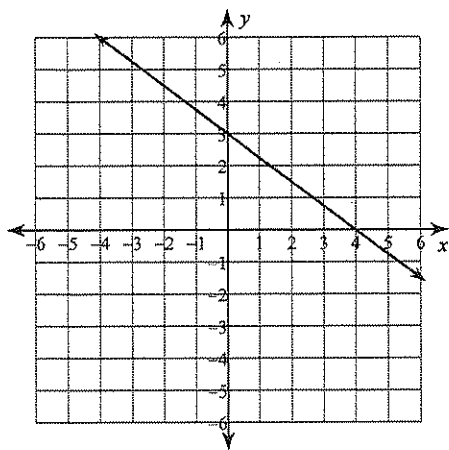
57) $y = -3x - 5$



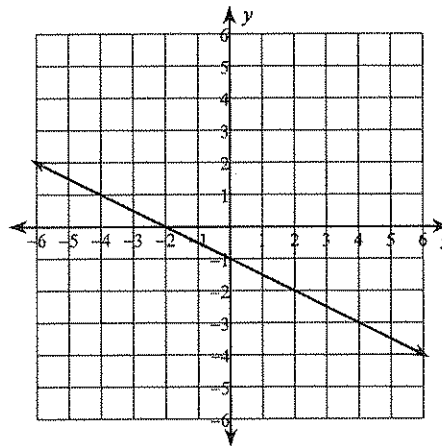
58) $y = -\frac{2}{5}x$



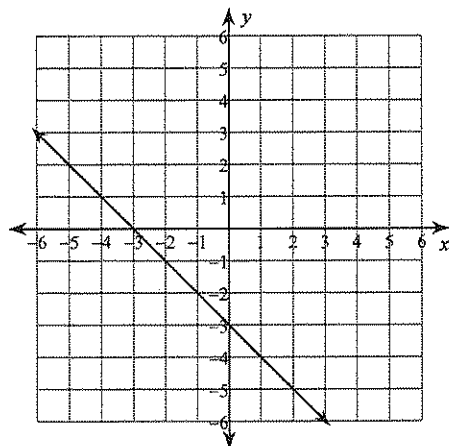
59) $12 - 4y = 3x$



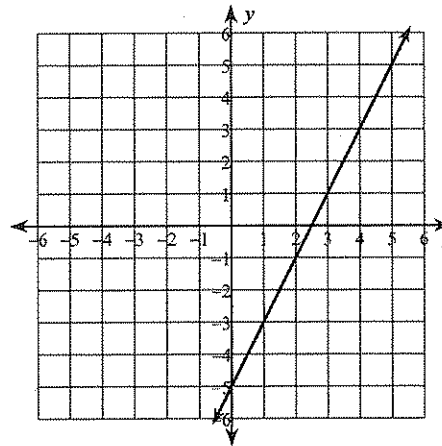
60) $-\frac{1}{2}x = 1 + y$



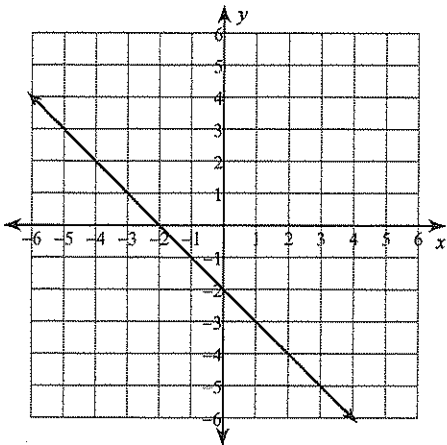
61) $x + y = -3$



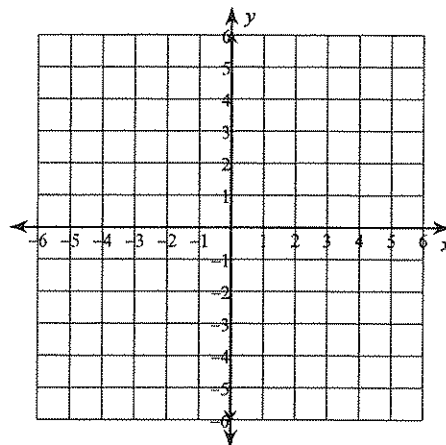
62) $2x - 5 = y$



63) $0 = -2 - y - x$



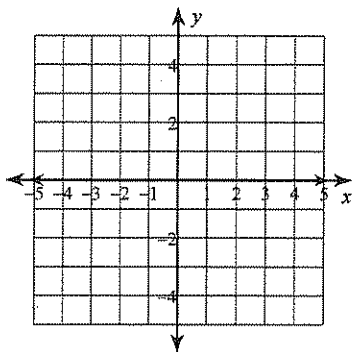
64) $0 = -x$



Write the slope-intercept form of the equation of each line.

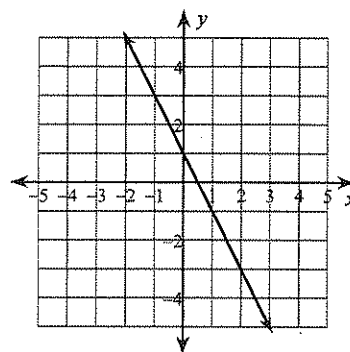
65)

$y = 0$



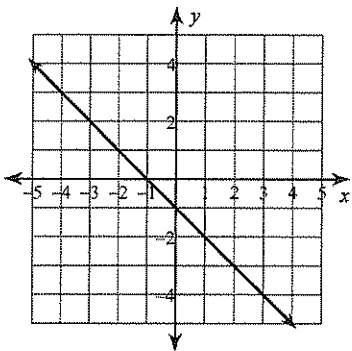
66)

$y = -2x + 1$



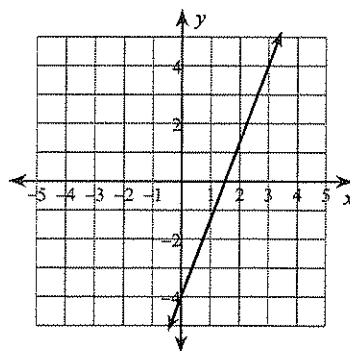
67)

$y = -x - 1$



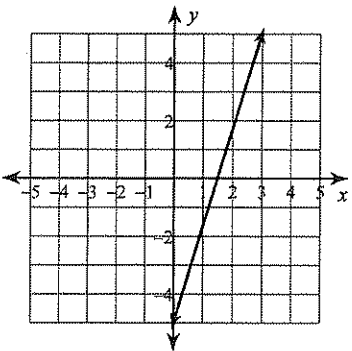
68)

$y = \frac{8}{3}x - 4$



69)

$y = \frac{10}{3}x - 5$



70)

$y = \frac{1}{5}x$

