

Summer Review Assignment

Find the distance between each pair of points.

1) $(-2, -1), (-5, -1)$

2) $(5, 8), (-2, 7)$

3) $(2, 4), (-8, -2)$

Solve each equation.

4) $k - 3 = 14$

5) $68 = 17x$

6) $0 = 5x$

7) $-20 = \frac{k}{13}$

8) $-\frac{3}{4} = \frac{n}{16}$

Solve each proportion.

9) $\frac{5}{8} = -\frac{x}{4}$

10) $-\frac{8}{p} = \frac{7}{9}$

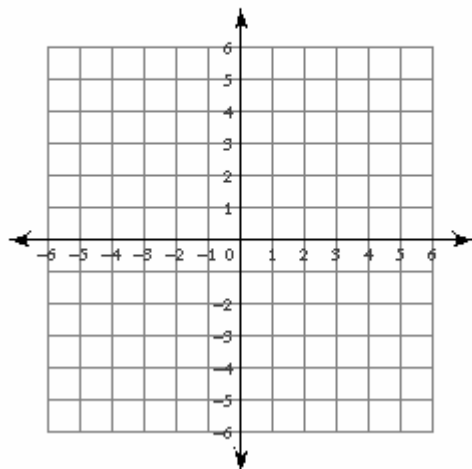
11) $\frac{5}{6} = \frac{n}{11}$

12) $-\frac{6}{5} = \frac{m}{3}$

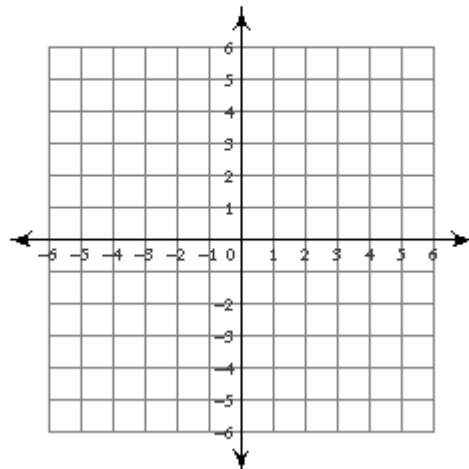
13) $\frac{10}{6} = \frac{r}{7}$

Sketch the graph of each line.

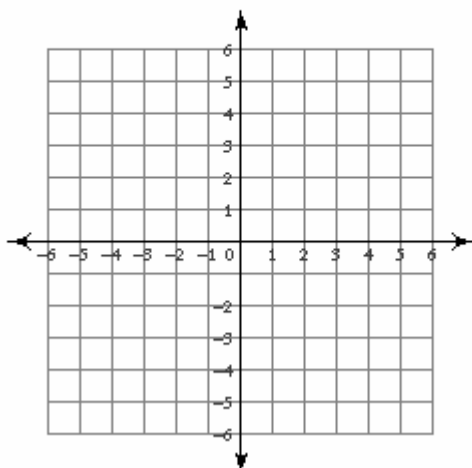
14) x -intercept = -1 , y -intercept = 2



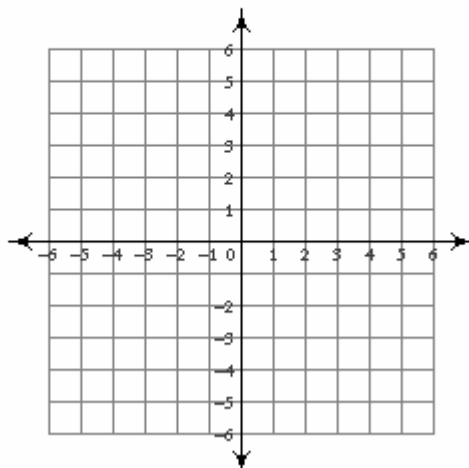
15) x -intercept = -5 , y -intercept = -5



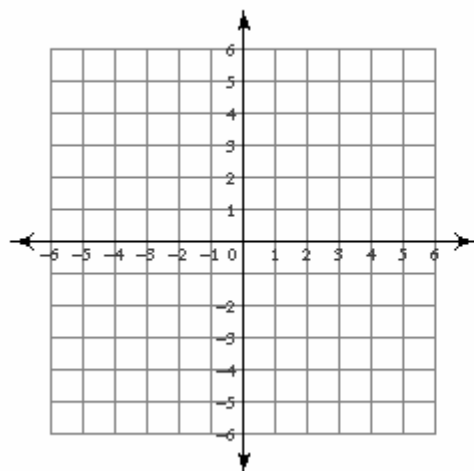
16) x -intercept = 3 , y -intercept = 5



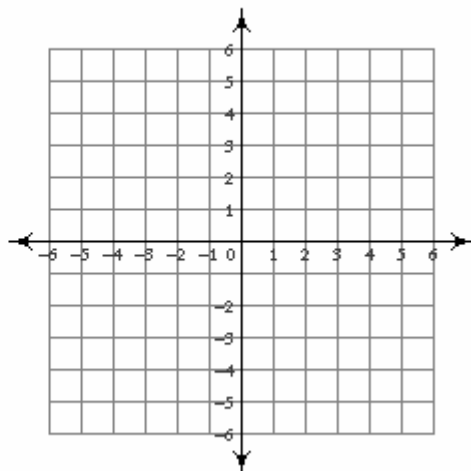
17) x -intercept = -2 , y -intercept = -3



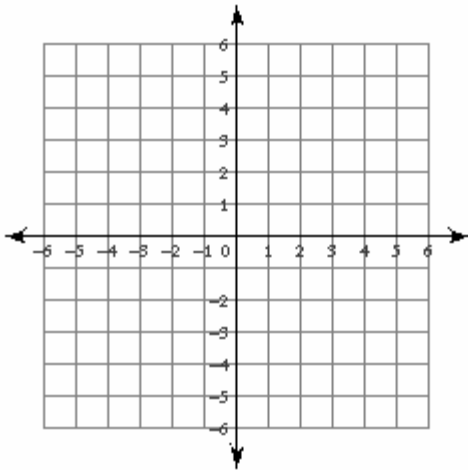
18) x -intercept = 2 , y -intercept = -1



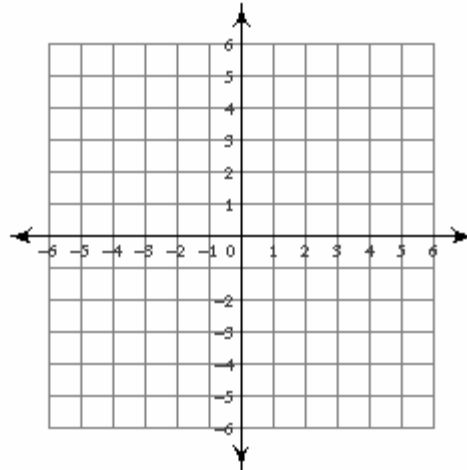
19) $x - 4y = -8$



20) $2x + 3y = 3$

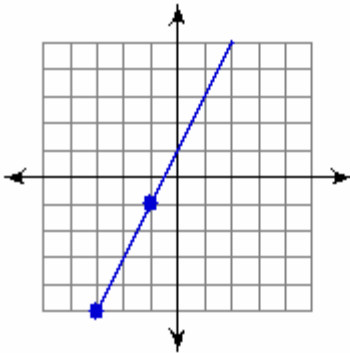


21) $8x + y = 4$

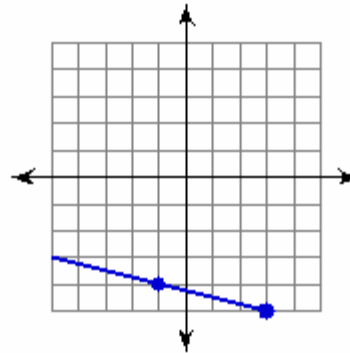


Find the slope of each line.

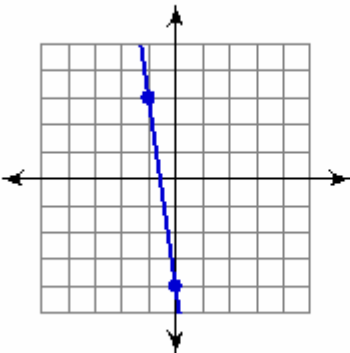
22)



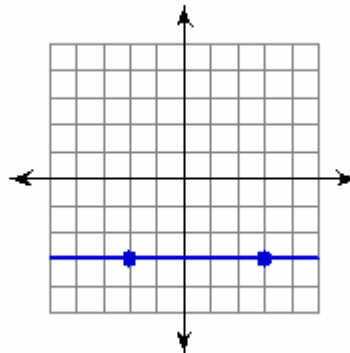
23)



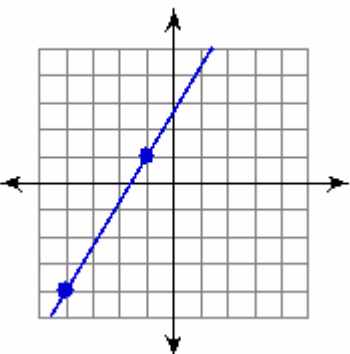
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25)

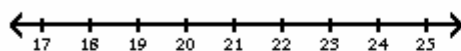


26)

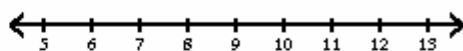


Solve each inequality and graph its solution.

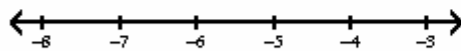
27) $n - 19 \geq 1$



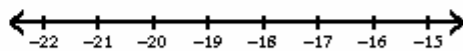
28) $6 > a - 2$



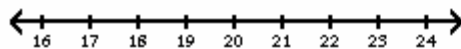
29) $50 < -10k$



30) $10x \geq -180$



31) $-40 \leq -2x$



Solve each equation.

32) $-4(-7n + 8) = -200$

33) $-7(4 - 7m) + 7 = -217$

34) $-210 = -6r + 6(7 - 6r)$

35) $-180 = 3(-8x - 4)$

36) $-6(4n - 3) - 3n = 180$

37) $-224 = -4(7 + 7b)$

38) $-(-3 + r) = 7$

39) $10(x + 11) = -130$

40) $2(n + 6) = 46$

41) $-1 + \frac{a}{2} = -3$

42) $-12 + \frac{v}{12} = -13$

Evaluate each expression.

43) $5 + (-2)$

44) $8 - 2$

45) $(-6) - 6$

46) $(-2) + (-6)$

47) $(-5) + 7$

48) $4 - (-6)$

$49) 7 - (-2)$

$50) (-3) - (-2)$

$51) 2 - 2$

$52) 4 + (-2)$

$53) 2 + 5 - 6$

$54) (7 + 3) \div 2$

$55) (4 \times 2) \div 4$

$56) 2 \times 4^2$

$57) 9 \div 3 \times 4$

Find each product.

$58) (-13)(4)$

$59) (-10)(10)$

$60) (-6)(17)$

$61) (-3)(14)$

$62) (0)(-20)$

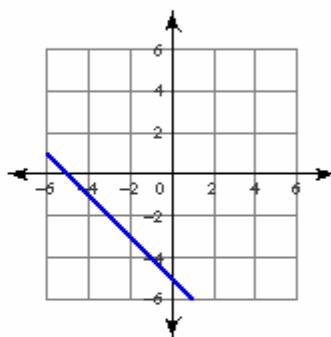
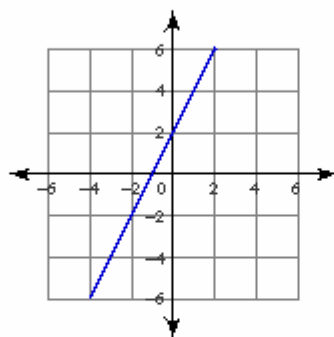
Answers to Summer Review Assignment

- 1) 3
 5) {4}
 9) {-2.5}
 13) {11.66}

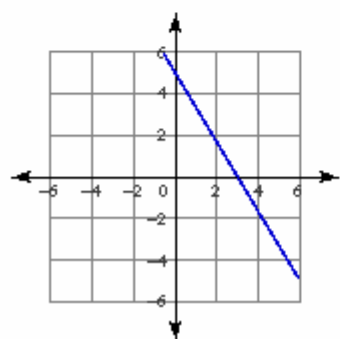
- 2) $5\sqrt{2}$
 6) {0}
 10) {-10.28}
 14)

- 3) $2\sqrt{34}$
 7) {-260}
 11) {9.16}
 15)

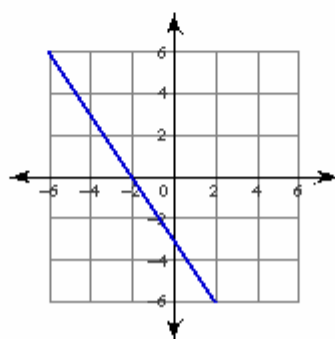
- 4) {17}
 8) {-12}
 12) {-3.6}



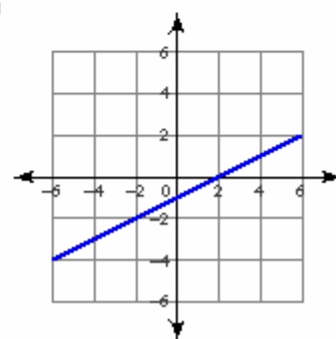
16)



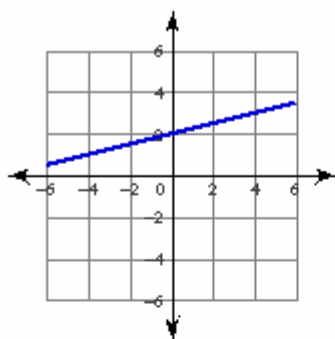
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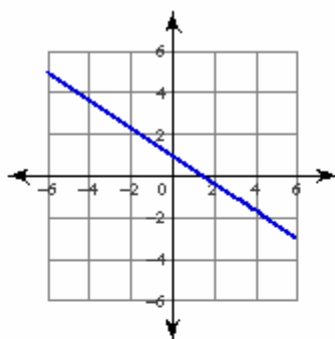
18)



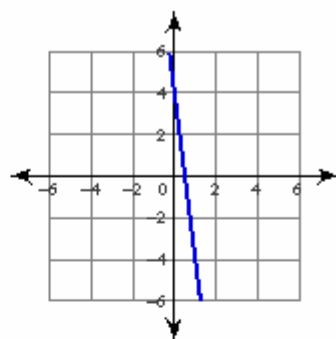
19)



20)



21)




22) 2

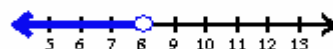
23) $-\frac{1}{4}$

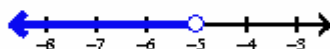
24) -7

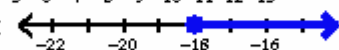
25) 0


26) $\frac{5}{3}$

27) $x \geq 20$: 

28) $a < 8$: 

29) $k < -5$: 

30) $x \geq -18$: 

31) $x \leq 20$: 

32) {-6}

33) {-4}

34) {6}

35) {7}

36) {-6}

37) {7}

38) {-4}

39) {-24}

40) {17}

41) {-4}

42) {-12}

43) 3

44) 6

45) -12

46) -8

47) 2

48) 10

49) 9

50) -1

51) 0

52) 2

53) 1

54) 5

55) 2

56) 32

57) 12

58) -52

59) -100

60) -102

61) -42

62) 0