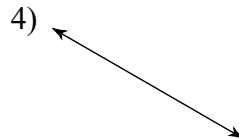
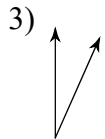
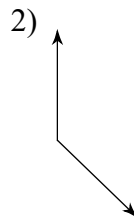
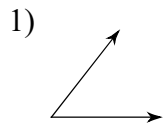


Summer Math

Classify each angle as acute, obtuse, right, or straight.



5) 78°

6) 180°

7) 90°

8) 174°

Draw and label an angle to fit each description.

9) an acute angle, $\angle WVU$

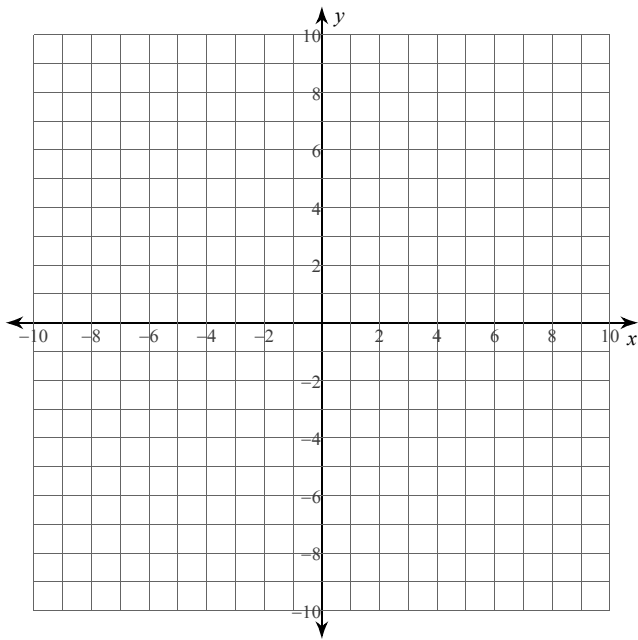
10) an obtuse angle, $\angle NML$

11) a straight angle, $\angle STU$

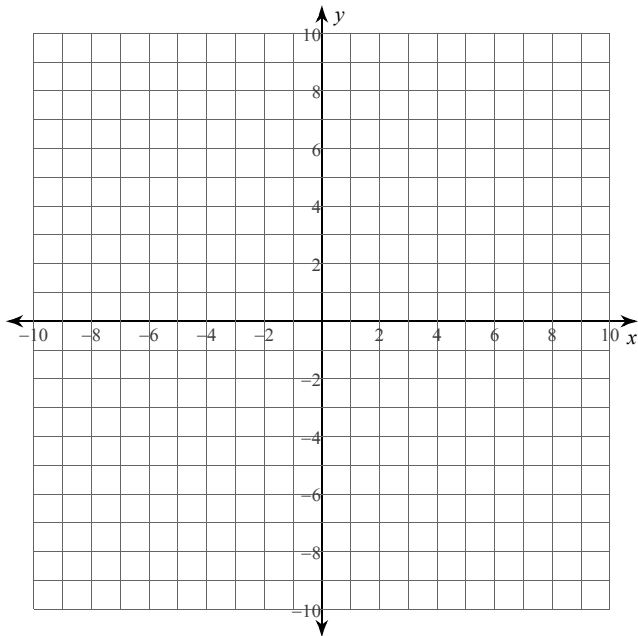
12) a right angle, $\angle PQR$

Plot each point.

- 13) $J(5, -8)$ $I(7, 5)$ $H(0, 3)$
 $G(-4, 1)$ $F(-9, -3)$ $E(2, -8)$
 $D(-2, 7)$ $C(-2, -8)$ $B(-8, 4)$
 $A(-9, -1)$

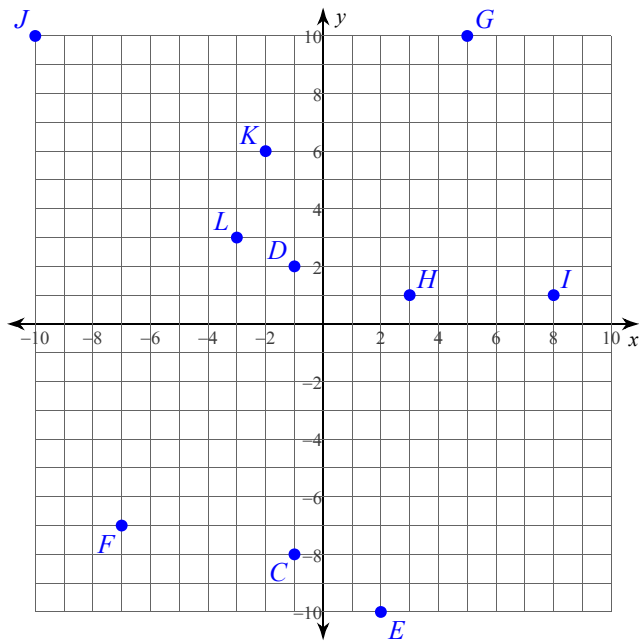


- 14) $E(2, -9)$ $F(-1, -4)$ $G(9, -8)$
 $H(-2, 3)$ $I(8, 0)$ $J(-7, -9)$
 $K(3, -3)$ $L(9, -9)$ $M(4, 9)$
 $N(6, 3)$

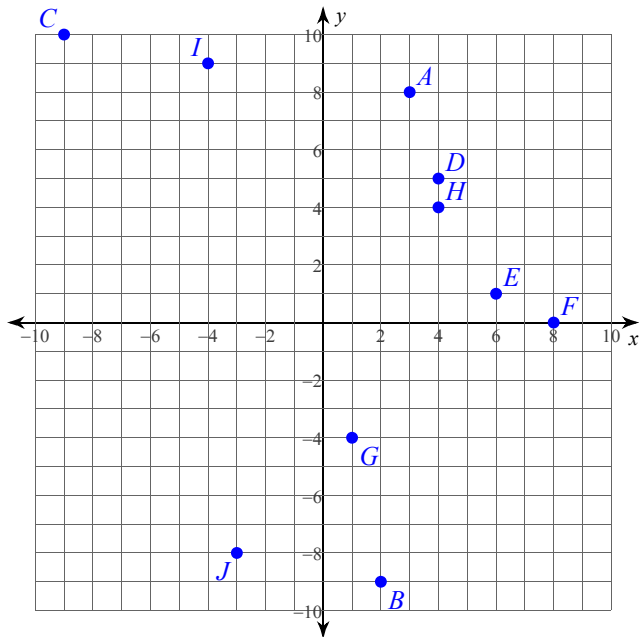


State the coordinates of each point.

15)



16)



Solve each equation.

17) $-5x - 4(4x - 1) = 88$

18) $5(1 - 2x) - x = -83$

19) $-104 = 8(p - 6)$

20) $-272 = 8(6 - 8n)$

21) $-8(4x + 8) = -8(3x + 5)$

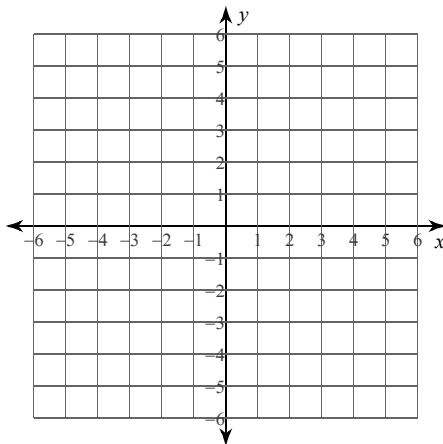
22) $4(1 + 3x) = 4(x - 5)$

23) $3 - 6(2 + 3x) = 7(1 - 2x)$

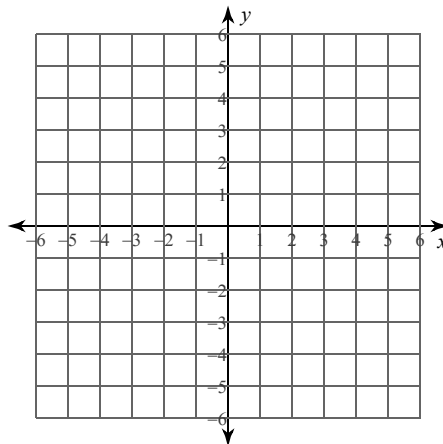
24) $-2 + 3(-8x + 1) = 6(-4x + 8)$

Sketch the graph of each line.

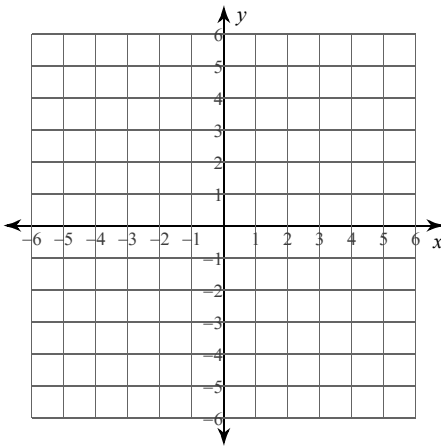
25) $y = \frac{3}{5}x - 2$



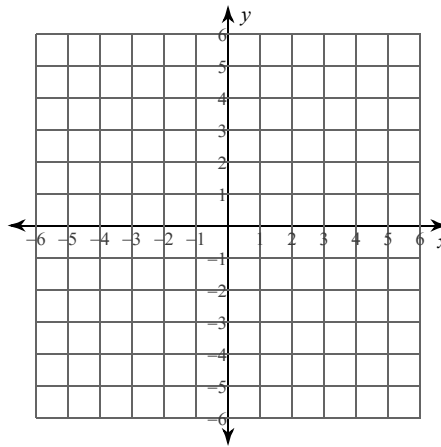
26) $y = -\frac{1}{4}x + 1$



27) $y = -x + 4$

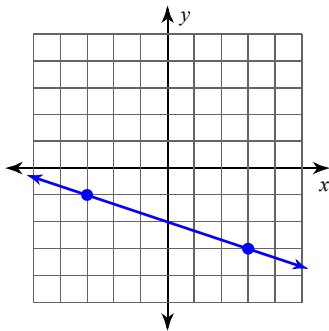


28) $y = 2x - 4$

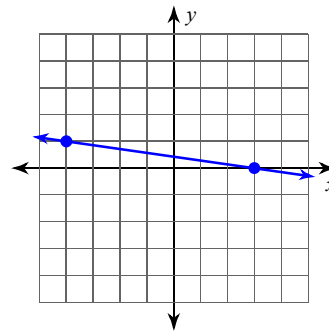


Find the slope of each line.

29)

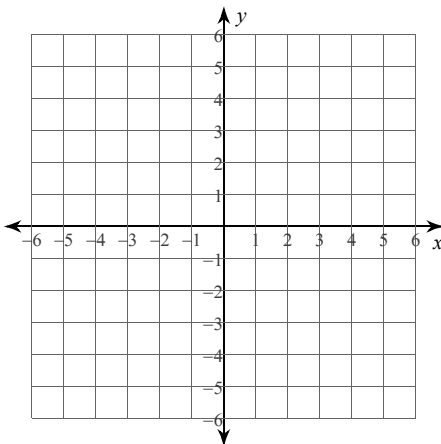


30)

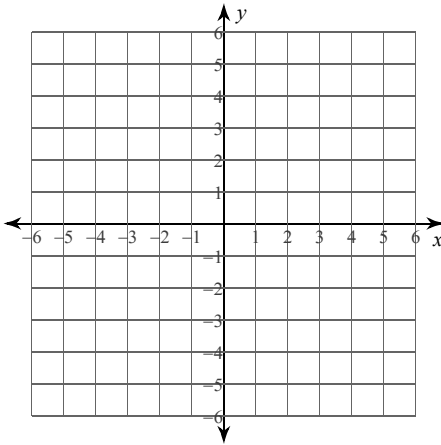


Sketch the graph of each line.

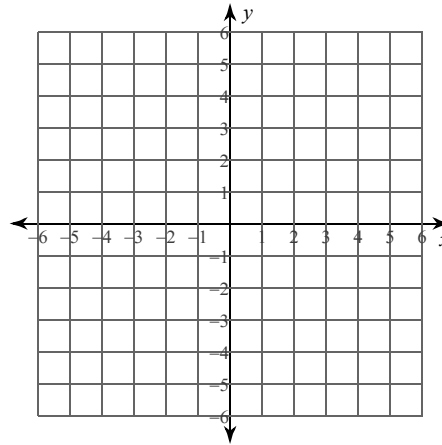
31) $2x - y = 4$



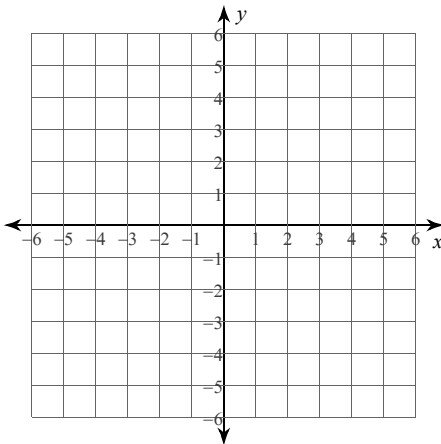
32) $7x - 3y = -12$



33) $3x + 2y = -4$



34) $8x - 5y = 15$



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

35) $(-12, -6), (6, -2)$

36) $(0, 2), (-17, 5)$

Find the slope of each line.

37) $y = x$

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

Find the slope of a line parallel to each given line.

39) $y = -\frac{5}{2}x + 3$

40) $y = -x - 1$

Find the slope of a line perpendicular to each given line.

41) $y = 4x - 4$

42) $y = 1$

Solve each proportion.

43) $\frac{5}{v} = \frac{10}{5}$

44) $\frac{8}{10} = \frac{m}{3}$

45) $\frac{6}{8} = \frac{3}{n-8}$

46) $\frac{x-4}{2} = \frac{8}{4}$

47) $\frac{3}{v} = \frac{9}{v+4}$

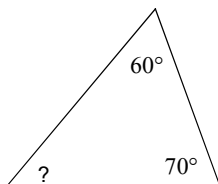
48) $\frac{k}{k+8} = \frac{6}{3}$

49) $\frac{4}{2} = \frac{v-10}{v+4}$

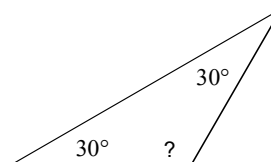
50) $\frac{x-7}{6} = \frac{x-3}{3}$

Find the measure of each angle indicated.

51)

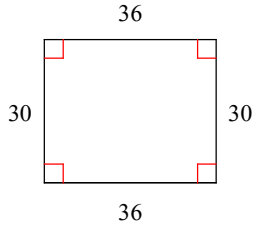
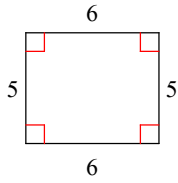


52)

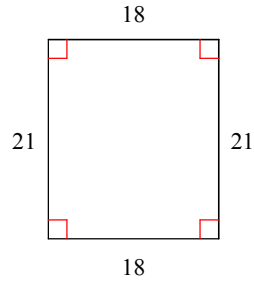
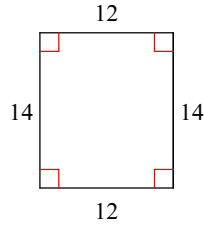


State if the polygons are similar.

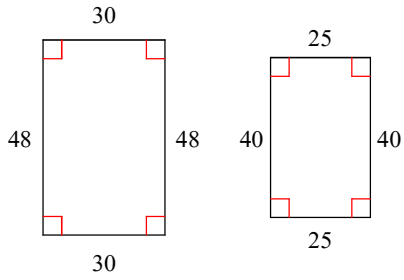
53)



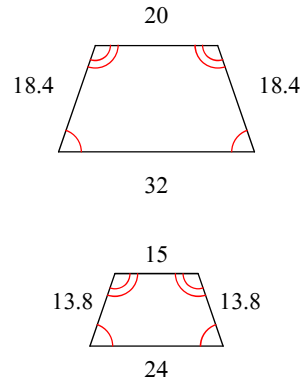
54)



55)

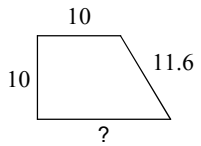
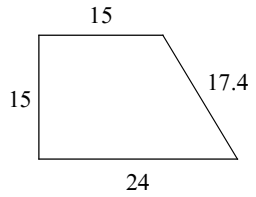


56)

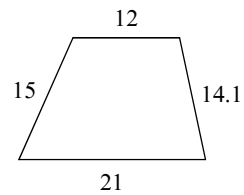
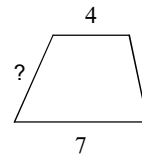


The polygons in each pair are similar. Find the missing side length.

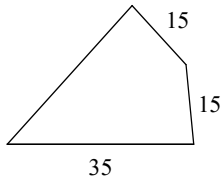
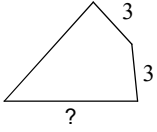
57)



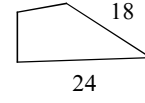
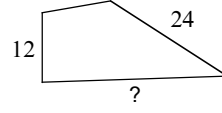
58)



59)

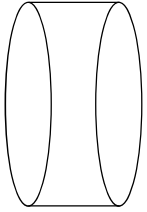


60)

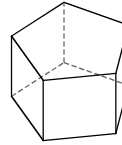


Name each figure.

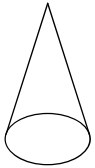
61)



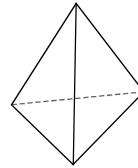
62)



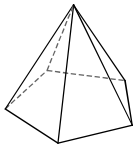
63)



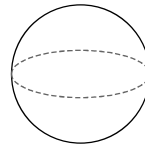
64)



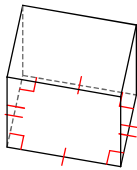
65)



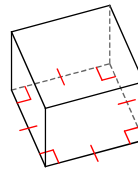
66)



67)

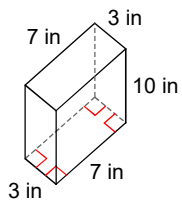


68)

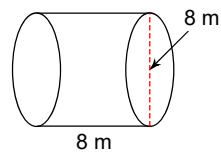


Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.

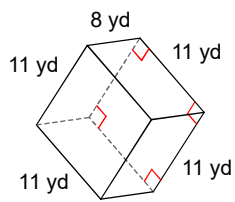
69)



70)

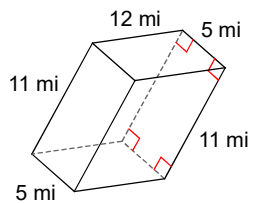


71)

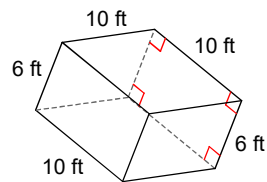


Find the surface area of each figure. Round your answers to the nearest hundredth, if necessary.

72)

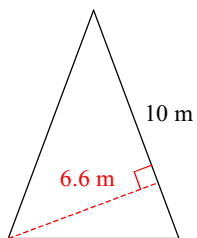


73)

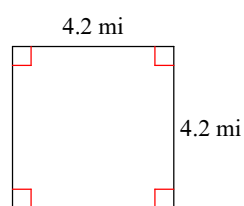


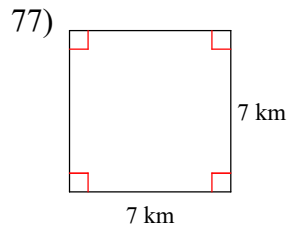
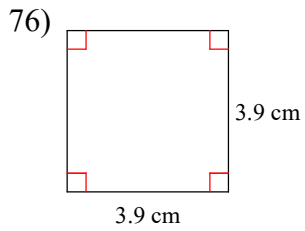
Find the area of each.

74)

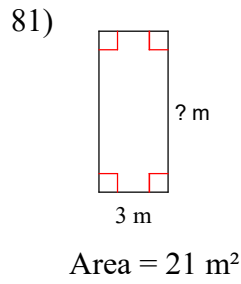
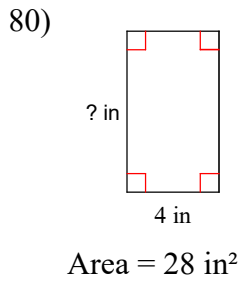
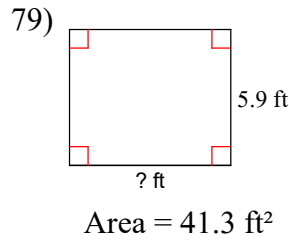
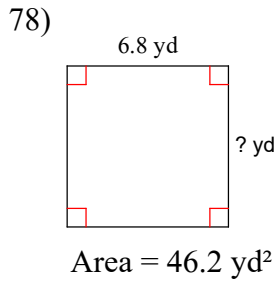


75)

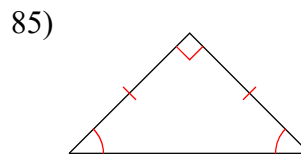
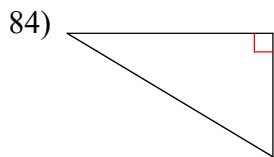
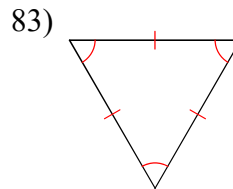
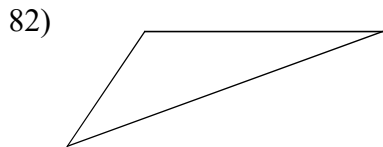




Find the missing measurement. Round your answer to the nearest tenth.

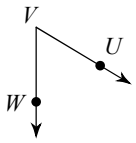


Classify each triangle by its sides. Equal sides and equal angles, if any, are indicated in each diagram.

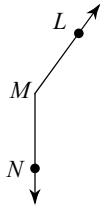


Answers to Summer Math

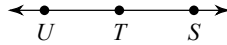
- 1) acute
5) acute
9)



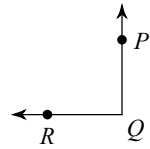
- 2) obtuse
6) straight
10)



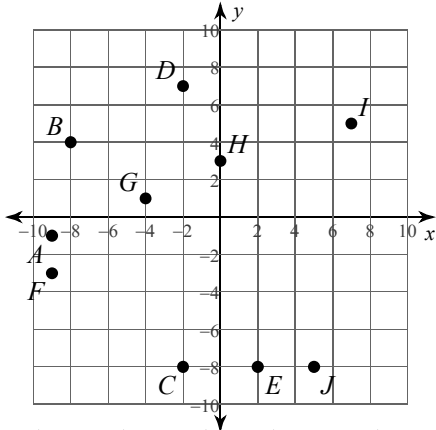
- 3) acute
7) right
11)



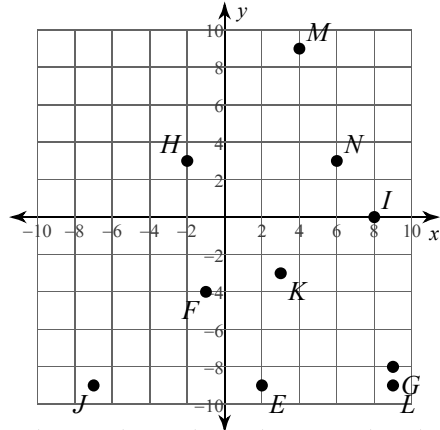
- 4) straight
8) obtuse
12)



13)



14)



- 15) $C(-1, -8)$ $D(-1, 2)$ $E(2, -10)$
 $F(-7, -7)$ $G(5, 10)$ $H(3, 1)$
 $I(8, 1)$ $J(-10, 10)$ $K(-2, 6)$
 $L(-3, 3)$

- 16) $J(-3, -8)$ $I(-4, 9)$ $H(4, 4)$
 $G(1, -4)$ $F(8, 0)$ $E(6, 1)$
 $D(4, 5)$ $C(-9, 10)$ $B(2, -9)$
 $A(3, 8)$

17) $\{-4\}$

18) $\{8\}$

19) $\{-7\}$

20) $\{5\}$

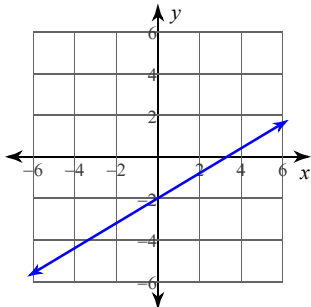
21) $\{-3\}$

22) $\{-3\}$

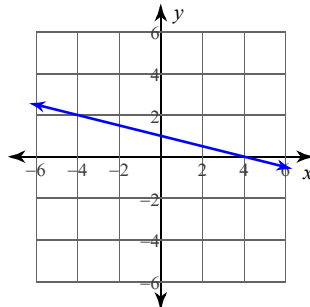
23) $\{-4\}$

24) No solution.

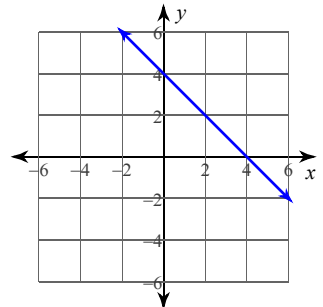
25)



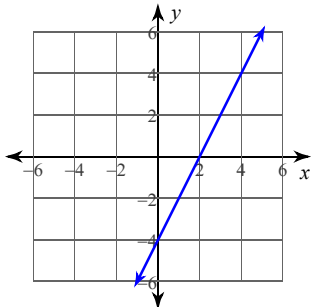
26)



27)



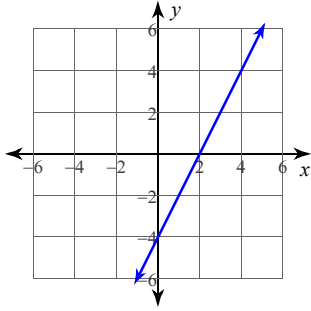
28)



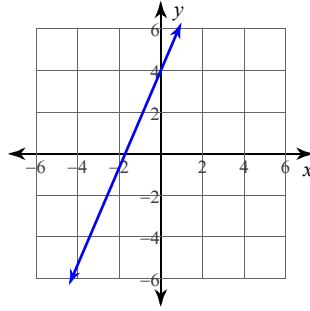
29) $-\frac{1}{3}$

30) $-\frac{1}{7}$

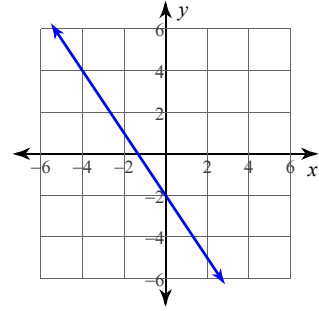
31)



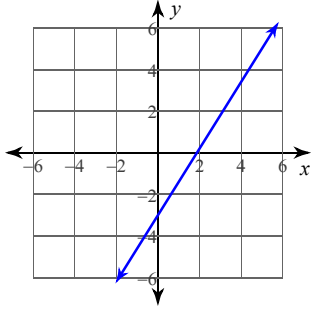
32)



33)



34)

35) $\frac{2}{9}$ 36) $-\frac{3}{17}$

37) 1

38) $-\frac{1}{2}$ 39) $-\frac{5}{2}$

40) -1

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

42) Undefined

43) {2.5}

44) {2.4}

45) {12}

46) {8}

47) {2}

48) {-16}

49) {-18}

50) {-1}

51) 50°

52) 120°

53) similar

54) similar

55) similar

56) similar

57) 16

58) 5

59) 7

60) 32

61) cylinder

62) pentagonal prism

63) cone

64) triangular pyramid

65) pentagonal pyramid

66) sphere

67) rectangular prism

68) square prism

69) 210 in³70) 402.12 m³71) 968 yd³72) 494 mi²73) 440 ft²74) 33 m²75) 17.64 mi²76) 15.21 cm²77) 49 km²

78) 6.8 yd

79) 7 ft

80) 7 in

81) 7 m

82) scalene

83) equilateral

84) scalene

85) isosceles