

## Summer Assignment

**Round each to the place indicated.**

1) 8,151.132; ones

2) 92.093; ones

3) 4.9067; tenths

4) 7.35972; thousandths

5) 2.6754; tenths

6) 22.089504; thousandths

**Evaluate each using the values given.**

7)  $h + j - 1$ ; use  $h = -1$ , and  $j = -3$

8)  $b - 3 + a$ ; use  $a = 4$ , and  $b = -5$

9)  $xy + y - 6$ ; use  $x = -3$ , and  $y = -4$

10)  $h - (j + j + j)$ ; use  $h = -6$ , and  $j = -1$

**Solve each equation.**

11)  $-8 - 2r - 6r = 6 + 2r - 8r$

12)  $11 + 3r = 7 + 3r$

13)  $-3(-8v + 7) = -189$

14)  $-105 = 5(-5 + 2v)$

15)  $20 + 6v = -8v + 3(-2 - 4v)$

16)  $7k - 38 = -3 + 7(4k + 4)$

$$17) -1 = \frac{v-6}{22}$$

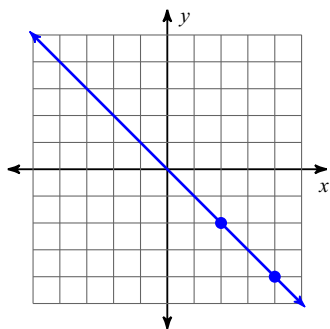
$$18) \frac{r}{2} - 9 = -5$$

$$19) -4 = \frac{x}{2} + 4$$

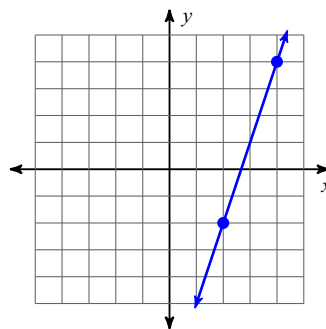
$$20) -4 = \frac{x+2}{3}$$

**Find the slope of each line.**

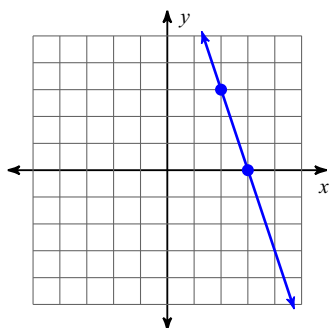
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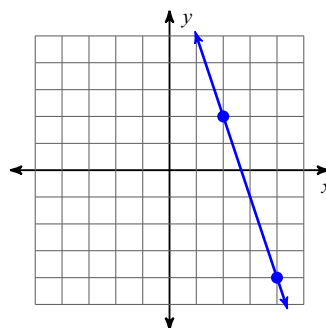
22)



23)



24)



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

25)  $(-1, -16), (7, 13)$

26)  $(-2, 16), (-2, 20)$

27)  $(-19, 14), (-15, -19)$

28)  $(-3, -8), (-3, -5)$

**Find the slope of each line.**

29)  $y = -\frac{4}{3}x - 1$

30)  $y = \frac{5}{2}x$

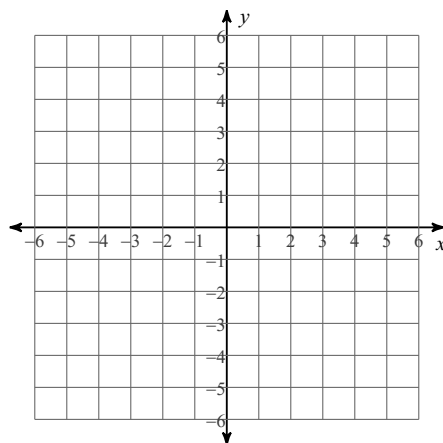
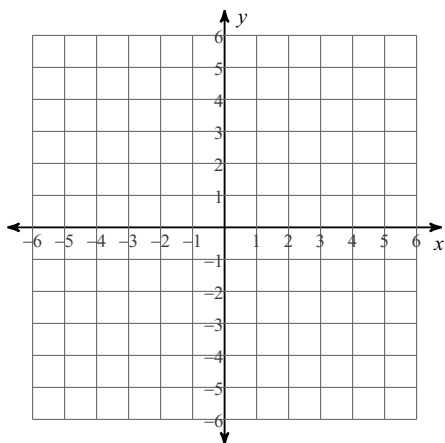
31)  $x = -\frac{5}{3} + \frac{5}{3}y$

32)  $-2y - 8 = -9x$

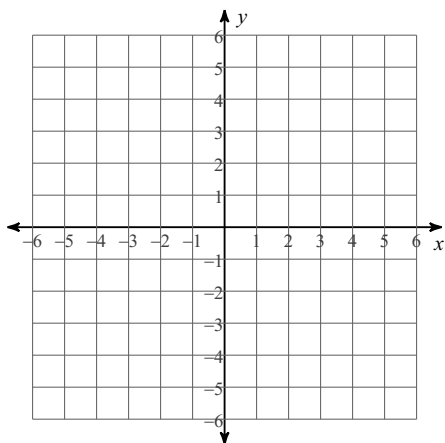
**Sketch the graph of each line.**

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

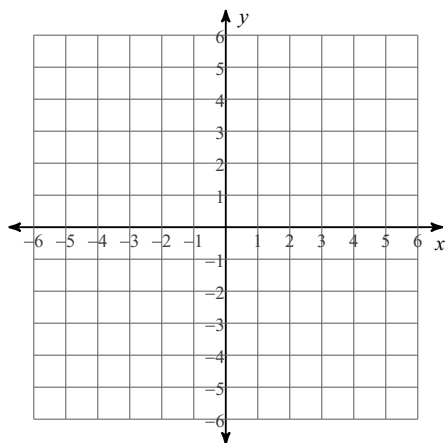
34)  $y = \frac{1}{5}x - 4$



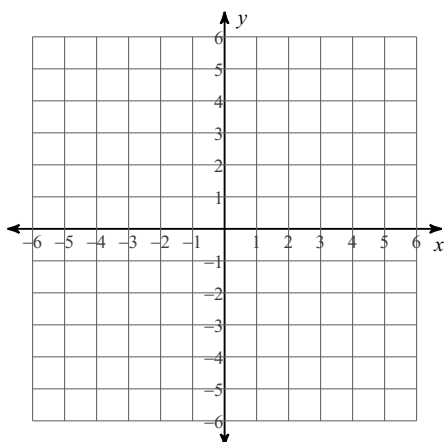
35)  $x$ -intercept =  $-1$ ,  $y$ -intercept =  $-5$



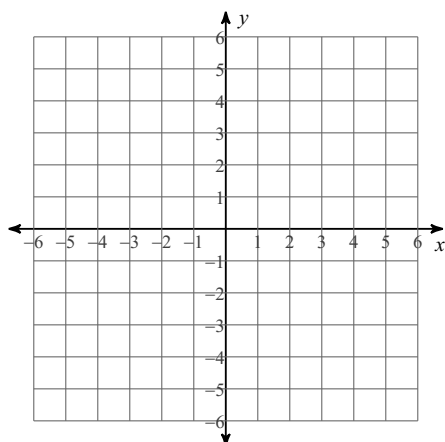
36)  $x$ -intercept =  $-1$ ,  $y$ -intercept =  $2$



37)  $-3x = -y + 1$



38)  $-3 + x = 0$



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

39)  $y = -\frac{7}{4}x - 5$

40)  $y = -\frac{8}{5}x + 3$

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

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

42)  $y = \frac{1}{4}x - 3$

**Simplify.**

43)  $\sqrt{150n^2}$

44)  $\sqrt{384p}$

45)  $\sqrt{80p}$

46)  $\sqrt{32n^2}$

47)  $\sqrt{288v^2}$

48)  $\sqrt{180r}$

**Factor the common factor out of each expression.**

49)  $-6n^3 - 42n^2 + 6$

50)  $3n^5 + 5n^2 + 8n$

51)  $5p^3 - 7p^2 + 4p$

52)  $7p^3 + 70p - 28$

**Factor each completely.**

53)  $m^2 + 9m$

54)  $x^2 - 7x$

55)  $5p^2 + 5p$

56)  $r^2 - 4r - 45$

57)  $24n^3 + 4n^2 + 18n + 3$

58)  $n^3 - 5n^2 - n + 5$

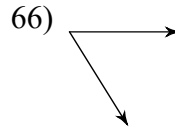
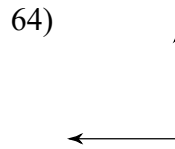
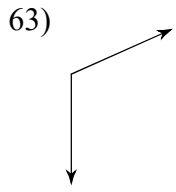
59)  $21x^3 + 49x^2 + 12x + 28$

60)  $9x^3 + 24x^2 - 24x - 64$

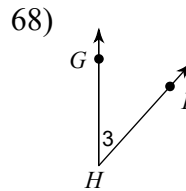
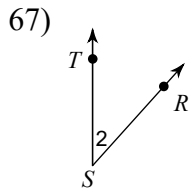
61)  $16x^2 - 1$

62)  $25x^2 - 16$

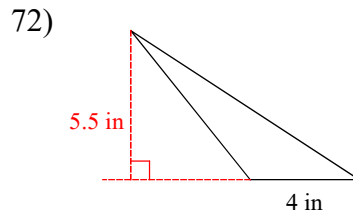
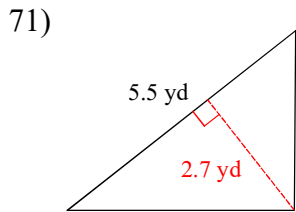
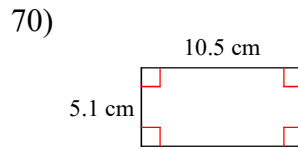
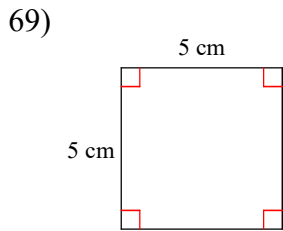
**Classify each angle as acute, obtuse, right, or straight.**



**Name each angle in four ways.**

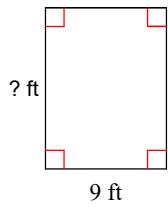


**Find the area of each.**



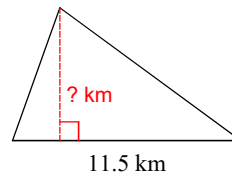
Find the missing measurement. Round your answer to the nearest tenth.

73)



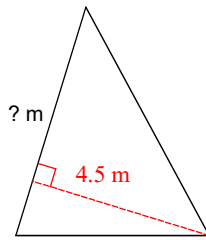
Area =  $108 \text{ ft}^2$

74)



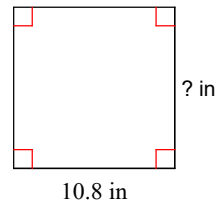
Area =  $38.5 \text{ km}^2$

75)



Area =  $13.1 \text{ m}^2$

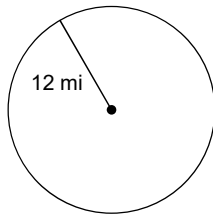
76)



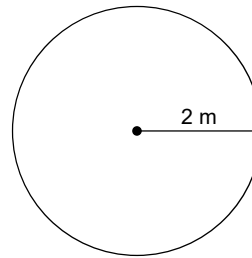
Area =  $116.6 \text{ in}^2$

Find the area of each. Use 3.14 for the value of  $\pi$ . Round your answer to the nearest tenth.

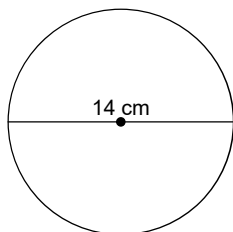
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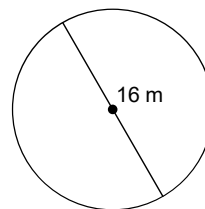
78)



79)



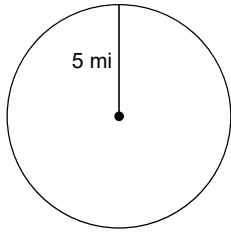
80)



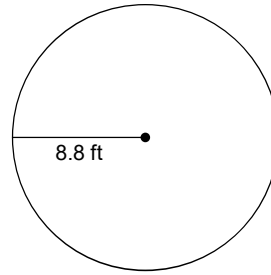


Find the circumference of each circle. Use 3.14 for the value of  $\pi$ . Round your answer to the nearest tenth.

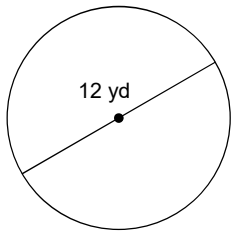
81)



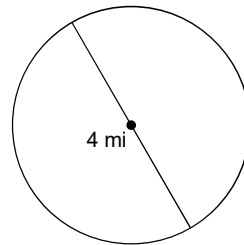
82)



83)

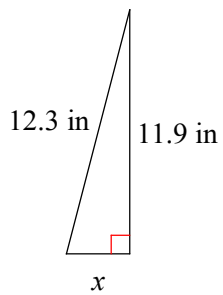


84)

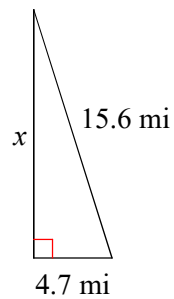


Find the missing side of each triangle using the Pythagorean Theorem. Round your answers to the nearest tenth if necessary.

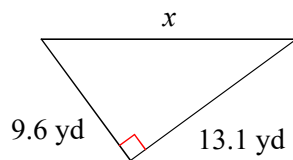
85)



86)



87)



88)

