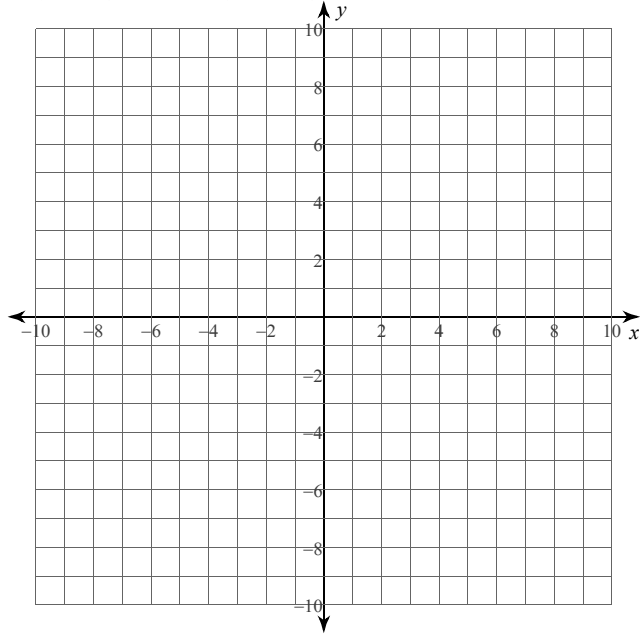


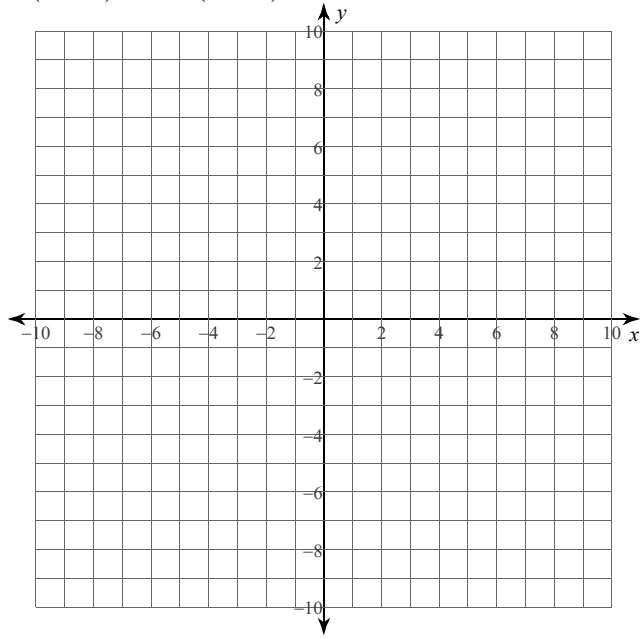
## Geometry Summer Review

State the quadrant or axis that each point lies in.

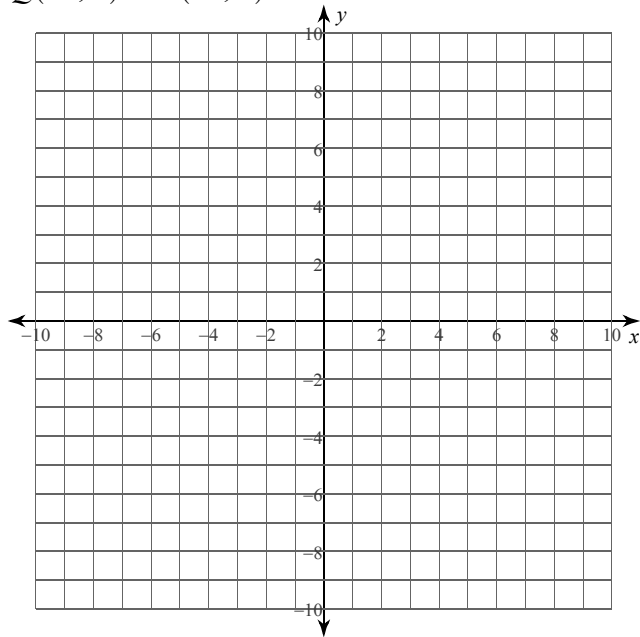
- 1)  $W(-10, -2)$     $V(-1, -6)$     $U(-1, 5)$   
 $T(-5, 5)$     $S(-4, -1)$



- 2)  $P(-6, -2)$     $Q(6, 6)$     $R(2, 3)$   
 $S(-1, 4)$     $T(-3, 4)$



- 3)  $T(-1, 7)$     $S(-10, 1)$     $R(-1, 1)$   
 $Q(-7, 6)$     $P(-8, 0)$



**Round each to the place indicated.**

4) 5.996; hundredths

5) 21.91; tenths

6) 7.6218; hundredths

7) 15.63946; hundredths

8) 8.67130; tenths

**Solve each equation.**

9)  $230 = -5(-4 + 6n)$

10)  $3(3a + 7) + 1 = 94$

11)  $-4(8n + 6) = -248$

**Factor Completely**

12)  $x^2 - 9x + 18$

13)  $n^2 - 2n - 35$

14)  $4y^2 + 8y$

15)  $7d^2 - 5d - 2$

**Solve the quadratic equation by factoring.**

16)  $x^2 + 2x - 24 = 0$

17)  $x^2 - 3x - 28 = 0$

**Solve the quadratic equation by using the quadratic formula. Round to the nearest thousandth if needed.**

18)  $x^2 - 5x - 36 = 0$

19)  $11x^2 - 10x - 20 = 0$

**Evaluate each using the given values.**

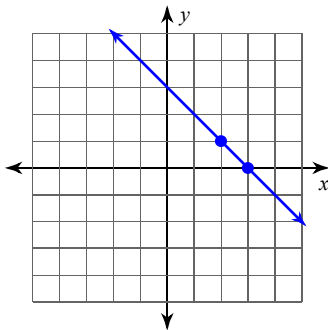
20)  $x - (x + x + y)$ ; use  $x = -6$ , and  $y = -1$

21)  $\frac{n^2 - p}{3}$ ; use  $n = -3$ , and  $q = 6$

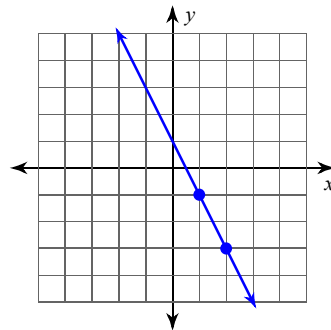
22)  $x(y + y - z)$ ; use  $x = 4$ ,  $y = 1$  and  $z = -4$

**Find the slope of each line.**

23)



24)



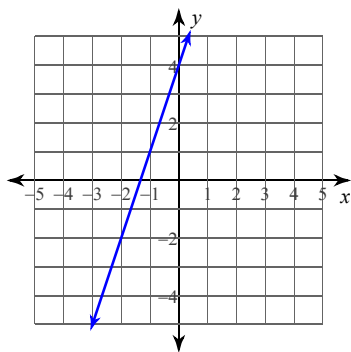
Find the slope of the line through each pair of points.

25)  $(1, -4), (9, -2)$

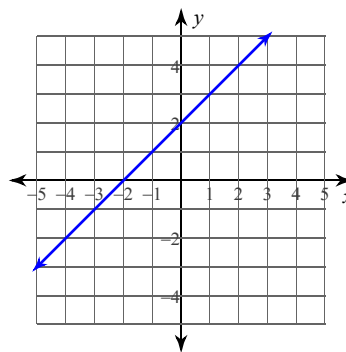
26)  $(4, -20), (8, 2)$

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

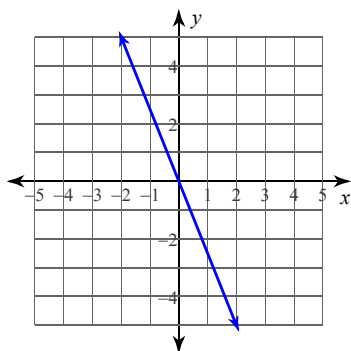
27)



28)

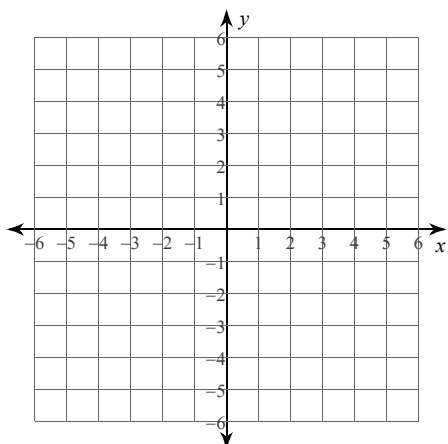


29)

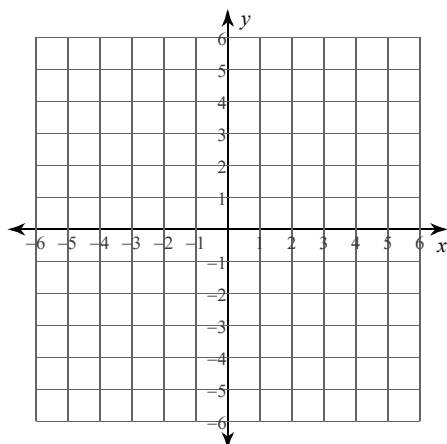


Sketch the graph of each line.

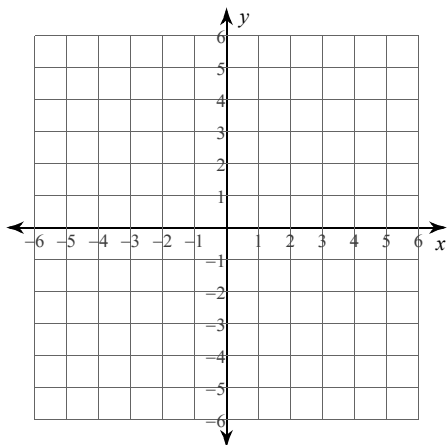
30)  $x$ -intercept = 1,  $y$ -intercept = 2



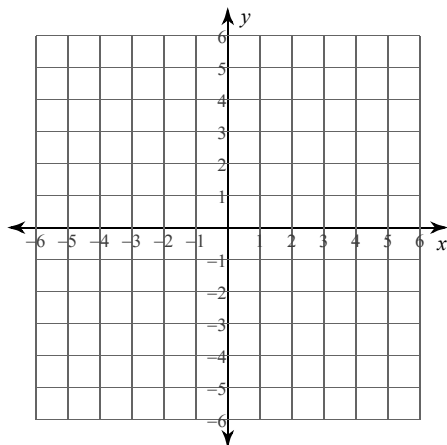
31)  $x$ -intercept = 5,  $y$ -intercept = -1



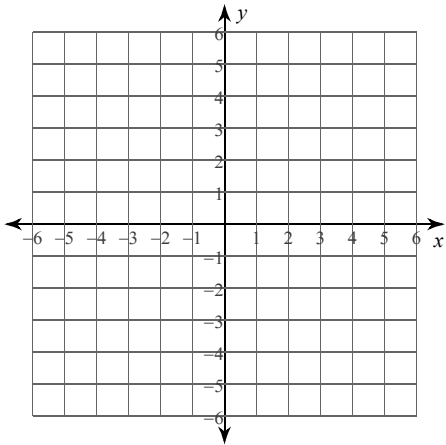
32)  $5x + y = 5$



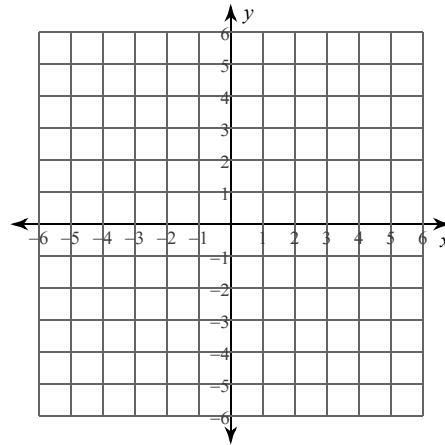
33)  $4x - y = -1$



34)  $y = 3x + 5$



35)  $x = 0$



**Solve each proportion.**

36)  $\frac{6}{3} = \frac{x}{2}$

37)  $\frac{8}{3} = \frac{m}{7}$

38)  $\frac{4}{7} = \frac{8}{x-6}$

39)  $\frac{9}{n-7} = \frac{5}{7}$

**Simplify.**

40)  $\sqrt{500}$

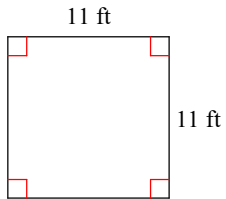
41)  $\sqrt{200}$

42)  $8\sqrt{144}$

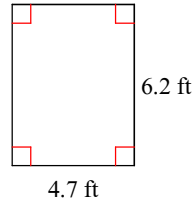
43)  $10\sqrt{448}$

**Find the area of each.**

44)

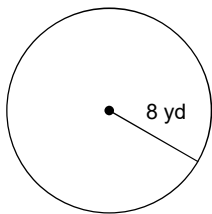


45)

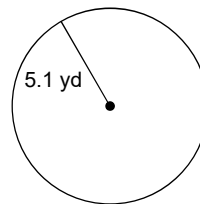


**Find the area of each. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.**

46)

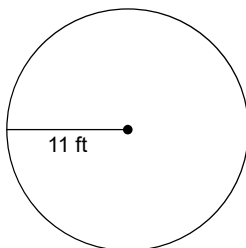


47)

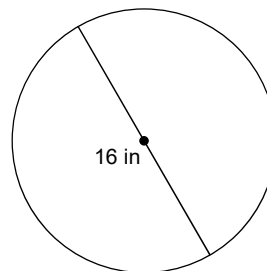


**Find the circumference of each circle. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.**

48)



49)





# Answers to Geometry Summer Review

1)  $W: III$   $V: III$   $U: II$   
 $T: II$   $S: III$

2)  $P: III$   $Q: I$   $R: I$   
 $S: II$   $T: II$

3)  $T: II$   $S: II$   $R: II$   
 $Q: II$   $P: x\text{-axis}$

4) 6.00

5) 21.9

6) 7.62

7) 15.64

8) 8.7

9)  $\{-7\}$

10)  $\{8\}$

11)  $\{7\}$

12)  $(x-6)(x-3)$

13)  $(n-7)(n+5)$

14)  $4y(y+2)$

15)  $(7d+2)(d-1)$

16)  $\{4, -6\}$

17)  $\{7, -4\}$

18)  $\{9, -4\}$

19)  $\{1.877, -0.968\}$

20) 7

21) 13

22) 24

23) -1

24) -2

25)  $\frac{1}{4}$

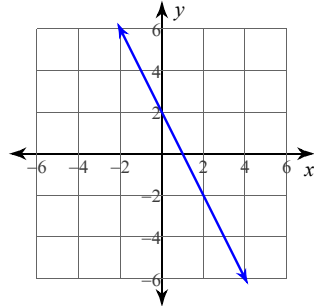
26)  $\frac{11}{2}$

27)  $y = 3x + 4$

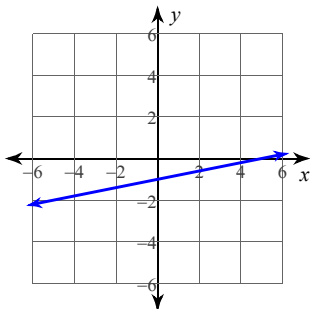
28)  $y = x + 2$

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

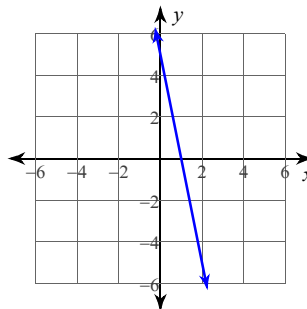
30)



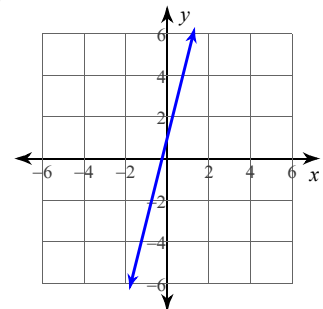
31)



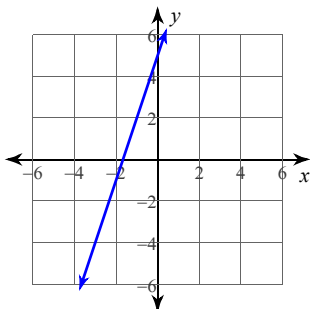
32)



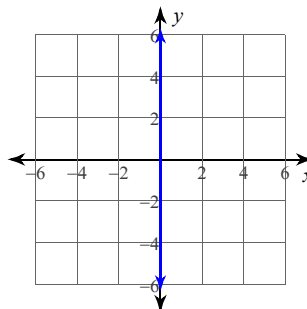
33)



34)



35)



36)  $\{4\}$

37)  $\{18.67\}$

38)  $\{20\}$

39)  $\{19.6\}$

40)  $10\sqrt{5}$

41)  $10\sqrt{2}$

42) 96

43)  $80\sqrt{7}$

44)  $121 \text{ ft}^2$

45)  $29.14 \text{ ft}^2$

46)  $201.1 \text{ yd}^2$

47)  $81.7 \text{ yd}^2$

48) 69.1 ft

49) 50.3 in