

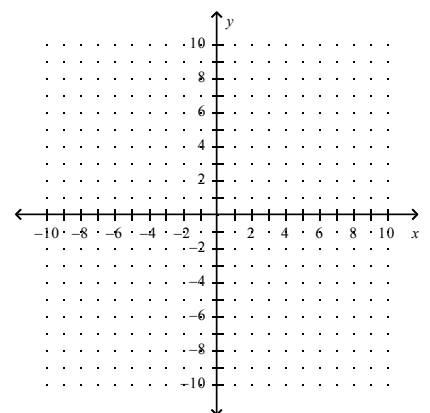
Continued Practice

1. Given the line $y = -\frac{3}{4}x + 2$, write the equation of a line perpendicular to the given line that goes through the point $(6, -1)$ in point-slope form.

2. Given the line $y = -\frac{3}{4}x + 2$, write the equation of a line parallel to the given line that goes through the point $(6, -1)$ in slope-intercept form.

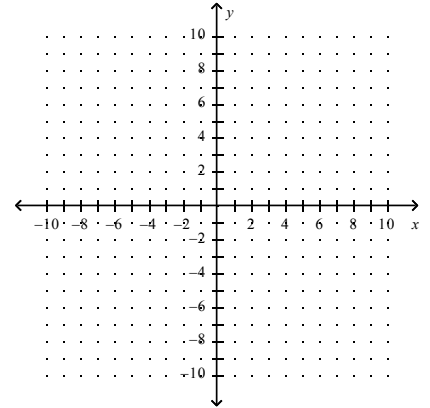
3. The distance across a circular pool is 5. In the coordinate plane, this distance is represented by the endpoint $(-2, 3)$ and $(-6, y)$. For the given distance, find ALL possible values of y .

4. Write a tangent line for the following circle: $x^2 + y^2 = 40$ at the point $(-2, 6)$.

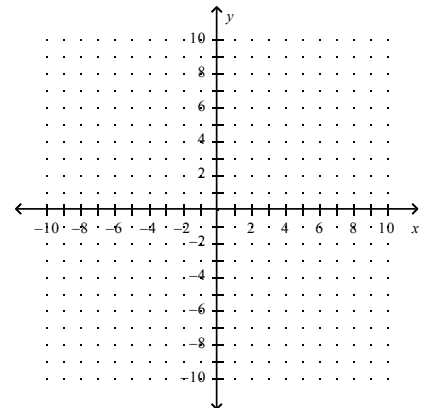


5. Classify the following quadrilaterals:

a. Quadrilateral ABCD has coordinates $A(4, 7)$, $B(9, 7)$, $C(6, 3)$, and $D(1, 3)$.



b. Quadrilateral ABCD with coordinates: $A(-2, 3)$, $B(2, 4)$, $C(2, -2)$ and $D(-2, -1)$.

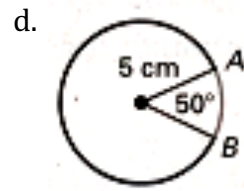
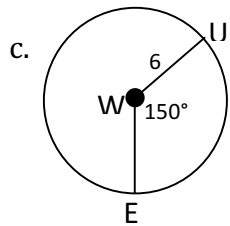
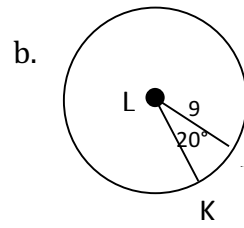
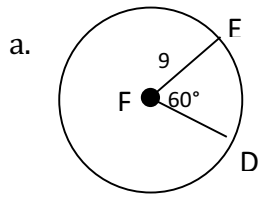


6. For a circle with center $(5, -2)$ and a point at $(-3, 8)$...

a. Determine the radius.

b. Write the equation of the circle.

7. Find the length of the minor arc and the area of the sector.



8. Complete the square: $8x + x^2 - 2y + y^2 = 64$

9. Given the equation of a circle is $y^2 + x^2 + 24x + 10y + 160 = 0$, find each of the following.

a. Standard form

b. The center

c. The radius

d. The diameter

e. The area

f. The circumference