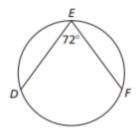
Find the indicated measure:

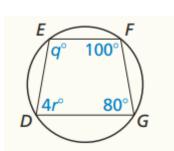




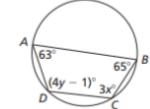
1) mDF=____



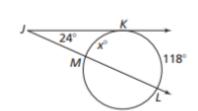
2) c= _____



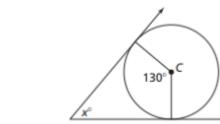
3) q=____, r=___



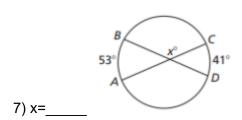
4) x=____, y=____

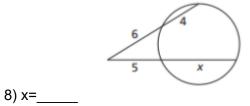


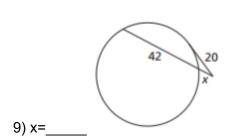
5) x=____



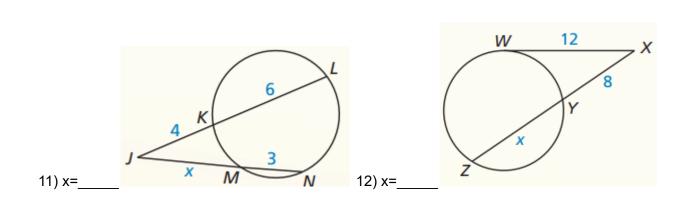
6) x=____





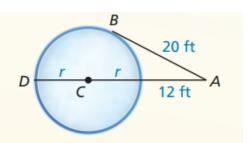


10)
$$x =$$

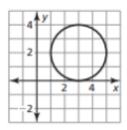


13)

A local park has a circular ice skating rink. You are standing at point *A*, about 12 feet from the edge of the rink. The distance from you to a point of tangency on the rink is about 20 feet. Estimate the radius of the rink.



Write the equation of the circle in standard form:



14)

Write the equation of the circle in standard form with center (3, -2) and a point on the circle (23, 19).

Write the standard equation of the circle with the given center and radius.

15)

16) center: (0, 0), radius: 9

17) center: (-5, 2), radius: 1.3

Write this equation of a circle in in standard form:

$$x^2 + 10x + y^2 - 8y = 11$$

18)

19) The point (-7, 1) is on a circle with center (-7, 6). Write the standard equation of the circle.

20) The equation of a circle is $x^2 + y^2 - 12x + 8y + 48 = 0$. Find the center and the radius of the circle. Then graph the circle.

