

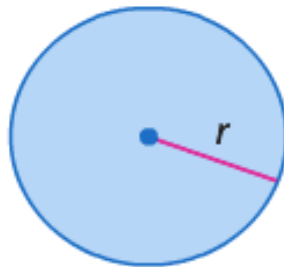
11-3

Area of Circles and Sectors

Area of a Circle

The area A of a circle is equal to π times the square of the radius r .

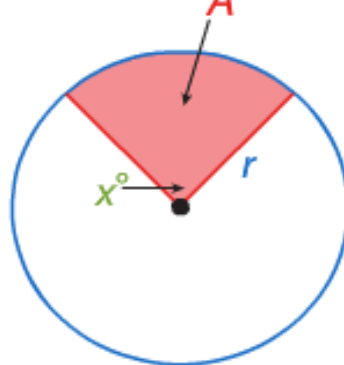
$$A = \pi r^2$$



Example

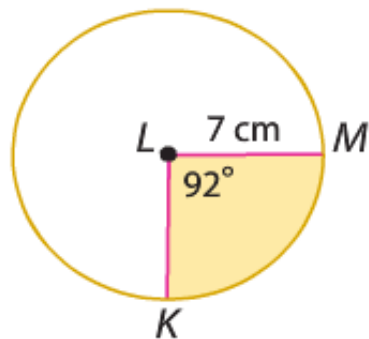
- 1) Find the diameter of a circle with an area of 74 square units

- 2) The arc length of a circle is approximately 12.57 units, with a central angle of 60 degrees. Find the area of the circle.

Area of a Sector

$$A = \frac{x}{360} \cdot \pi r^2$$

Find the Area of the shaded sector



Find the Area of the Shaded Region

