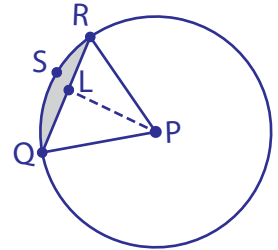


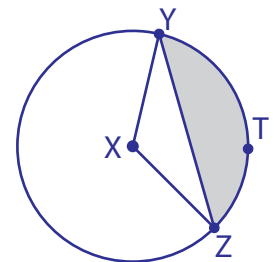
Area of a segment

Round the answers to two decimal places.

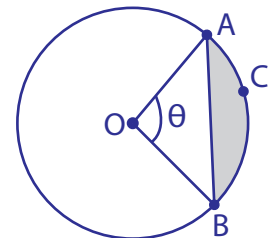
- 1) In the figure, $\angle P = 68^\circ$, $\overline{QR} = 20$ in, $\overline{PL} = 15$ in and $\overline{PQ} = 18$ in. Find the area of the shaded segment.



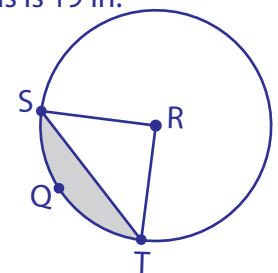
- 2) A chord drawn on a circle is of length 30 ft and is at a distance of 8 ft from the center which subtends an angle 124° with radius 17 ft. Find the area of the shaded segment.



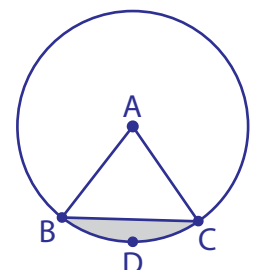
- 3) If the radius of the circle = 41 yd, base of the triangle = 62 yd, height of the triangle = 27 yd and $\theta = 98^\circ$. Find the area of the shaded region.



- 4) Find the area of a segment made by the chord whose central angle is 90° and radius is 19 in.



- 5) Find the area of the segment of a circle whose radius and central angle are 5 ft and 74° respectively. Also the base and height of a triangle are 6 ft and 4 ft respectively.

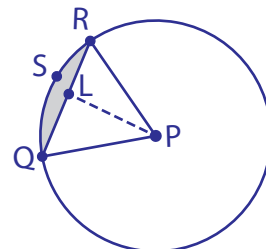


Area of a segment

Sheet 1

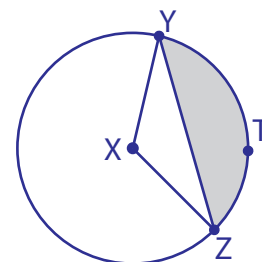
Round the answers to two decimal places.

- 1) In the figure, $\angle P = 68^\circ$, $\overline{QR} = 20$ in, $\overline{PL} = 15$ in and $\overline{PQ} = 18$ in. Find the area of the shaded segment.



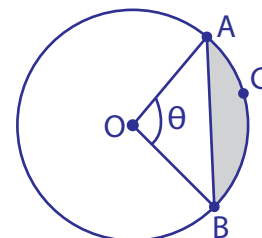
42.17 in²

- 2) A chord drawn on a circle is of length 30 ft and is at a distance of 8 ft from the center which subtends an angle 124° with radius 17 ft. Find the area of the shaded segment.



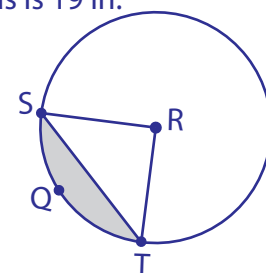
192.57 ft²

- 3) If the radius of the circle = 41 yd, base of the triangle = 62 yd, height of the triangle = 27 yd and $\theta = 98^\circ$. Find the area of the shaded region.



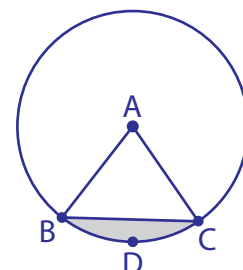
599.88 yd²

- 4) Find the area of a segment made by the chord whose central angle is 90° and radius is 19 in.



102.89 in²

- 5) Find the area of the segment of a circle whose radius and central angle are 5 ft and 74° respectively. Also the base and height of a triangle are 6 ft and 4 ft respectively.



4.14 ft²