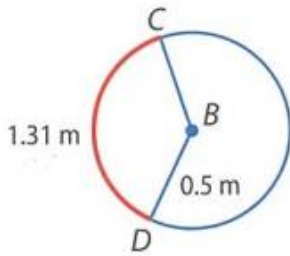
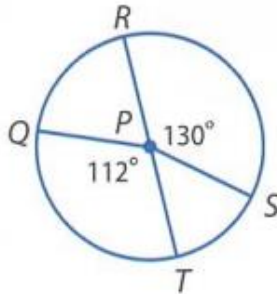


OPTIONAL Practice “Quest”

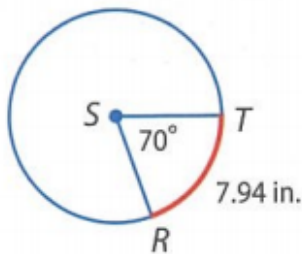
1. Find $m\widehat{CD}$. Round to two decimal places, if necessary.



2. Find the length of $\widehat{QR}$ if $PS = 4$ cm. Give exact and approximate answers.



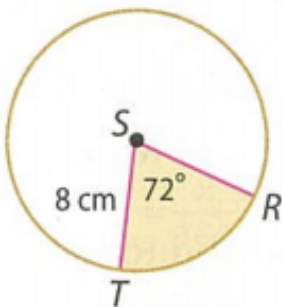
3. Find the circumference of $\odot S$. Round to two decimal places.



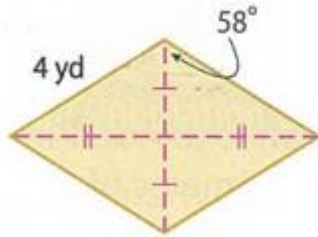
4. Convert 315° to radians.

5. Convert $\frac{8\pi}{3}$ radians to degrees.

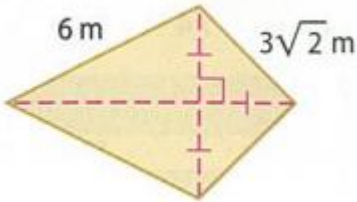
6. Find the area of the shaded sector. Give exact and approximate answers.



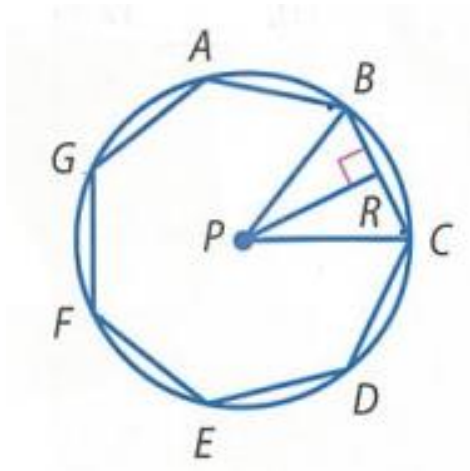
7. Find the area of the rhombus. Round answer to two decimal places.



8. Find the area of the kite. Round answer to two decimal places.



9. Use the diagram to name or find the following:



- Center of the polygon _____
- Radius of the polygon _____
- Apothem of the polygon _____
- Central angle of the polygon _____
- $m\angle BPC \approx$ _____
- $m\angle BPR \approx$ _____
- $m\angle RBP \approx$ _____

10. Find the area of a regular nonagon if...

- The apothem = 9 cm

- The radius = 9 cm

- The side length = 9 cm