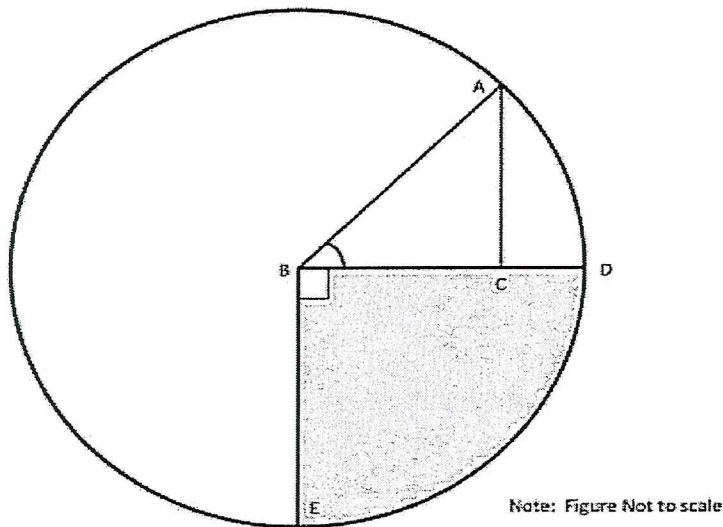


1. If it is 2:00 PM, what is the measure of the angle between the minute and hour hands of the clock?

2.

A circular, 8-slice pizza is placed in a square box that has dimensions four inches larger than the diameter of the pizza. If the box covers a surface area of 256 in^2 , what is the surface area of one piece of pizza?

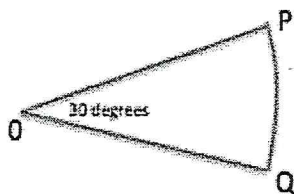
3.



If B is a circle with $AC = 12$ and $BC = 16$, then what is the shaded area?

4.

In the figure, PQ is the arc of a circle with center O. If the area of the sector is 3π what is the perimeter of sector?



5.

The two line segments are tangents to the circle. Find x .

