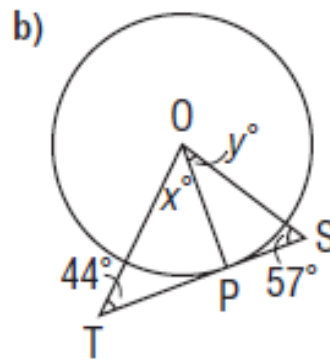
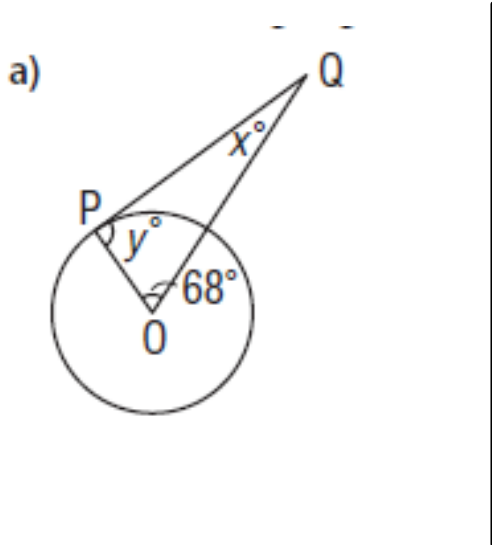
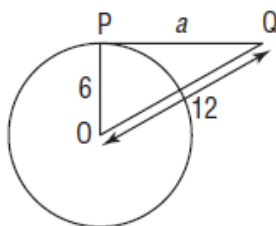


Mid-Unit Review

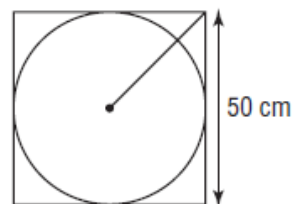
- 8.1** 1. Point O is the centre of each circle and P is a point of tangency. Determine each value of x° and y° .
Which circle properties did you use?



2. Point O is the centre of a circle and point P is a point of tangency. Determine the value of a . Explain your strategy.

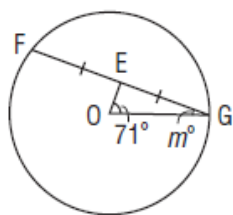


3. A metal disc is to be cut from a square sheet with side length 50 cm. How far from a corner of the sheet is the centre of the disc? Justify your strategy.



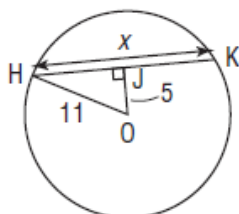
8.2

4. Point O is the centre of the circle.
Determine the value of m° .

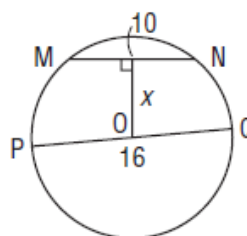


5. Point O is the centre of each circle.
Determine each value of x .

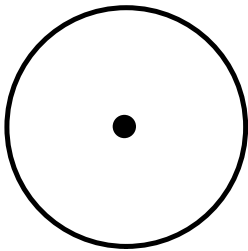
a)



b)



6. A circle has diameter 32 cm. A chord AB is 6 cm from O, the centre of the circle.
- Sketch a diagram.
 - What is the length of the chord? Which circle properties did you use to find out?



7. Water is flowing through a pipe with radius 14 cm. The maximum depth of the water is 9 cm. What is the width, PQ, of the surface of the water?

