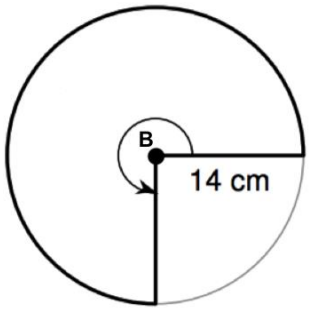
Geometry Honors
Unit 9: Circles
9.1b Apply Facts About Circles

Mathematician: _____
Period:_____

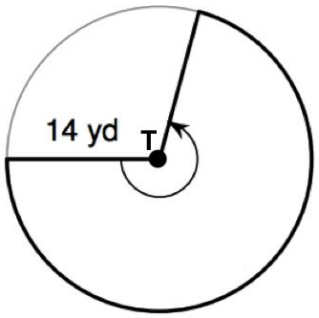
LEVEL: PROFICIENT

Directions: Use the given information to find the indicated measures.

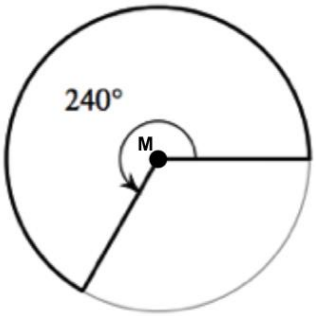
1) Find the area of the circle B if the indicated sector length is 66 cm.



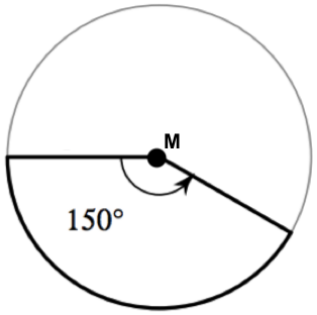

2) Find the area of the sector of circle T if the radius is 14 yards and the measure of the indicated arc is 260°.




3) Find the radius of circle M given that the area of the sector is 206 ft$^2$.



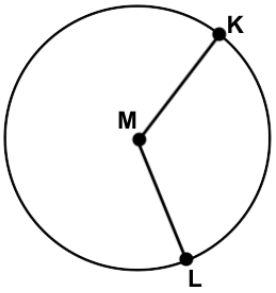

4) Find the radius given that the arc length is 38 in.




5) The area of circle *M* is 260.67 square inches. The area of sector *KML* is 98 square inches. Find the indicated measure.

a) Radius of circle *M.*

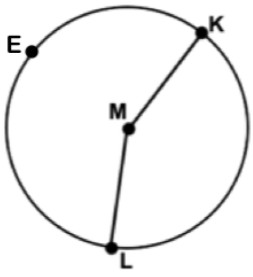
b) $m\angle KML$




6) The circumference of circle *M* is 50.67 feet and $m\angle KML = 132°$. Find the indicated measure.

b) Arc Length of *KEL*

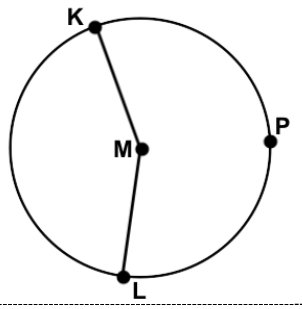
b) Area of circle *M*



7) The radius of circle M is 8.1 cm and $m\angle KML = 162°$. Find the indicated measures.

a) Find the area of the sector.

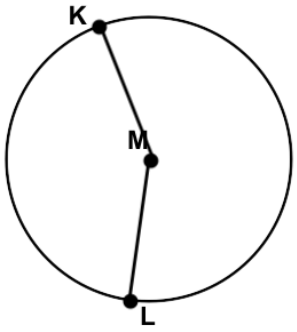
b) Find the arc length of $\widehat{KPL}$




8) The area of circle $M$ is 260.67 square inches. The $m\angle KML = 135°$. Find the indicated measure.

b) Radius of circle M

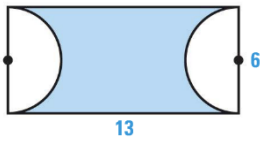
b) Arc length of $\widehat{KL}$



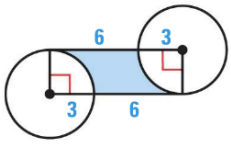

## LEVEL: MASTERY

Directions: Find the perimeter and area of the shaded region.

9)

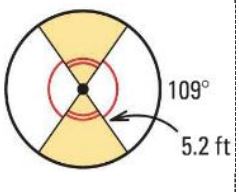



10)




Directions: Find the perimeter and area of the shaded region.

11) The diagram shows the shape of two remaining slices of pizza (shaded pieces).




12) The diagram shows the shape of the putting green at a miniature golf course. One part of the green is a sector of a circle.