

Circles Review

Alpha Geometry, Glawe

Name: _____

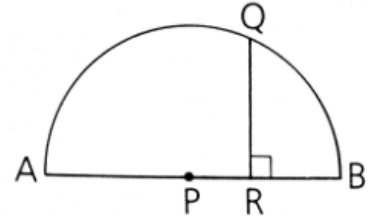
Class Period: _____ Date: _____

Everything on the circles review from 10.1 – 10.5 is fair game for the test. Make sure you review and study that sheet and your quiz to prepare for your test.

The test will be a no calculator test, so practice these problems without them. Leave all answers the exact answer (in terms of π).

1. Given: \overline{AB} is a diameter of $\odot P$, $QR = 6$, $AB = 13$, and $\overline{AB} \perp \overline{QR}$.

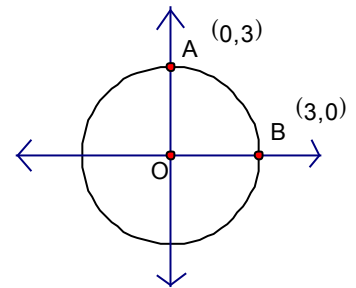
Find: RB .



2. Use the following diagram:

a. Find the measure of \widehat{AB}

c. Find the area of sector AOB.



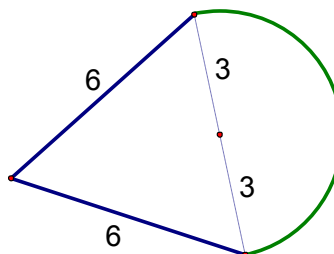
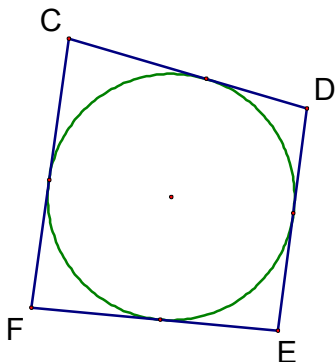
b. Find the length of \widehat{AB}

3. The segments below are all tangent to the circle.

$CD = 20$, $DE = 11$, $EF = 14$. Find CF .

(Walk-Around Problem)

4. Find the perimeter of the figure shown. Leave your answer in terms of π .



5. A circle has a radius of 85 in. How far from the center is a chord that is 102 in. long?

6. Write the equation of a circle centered at (2, -5) if (6, -5) is on the circle.

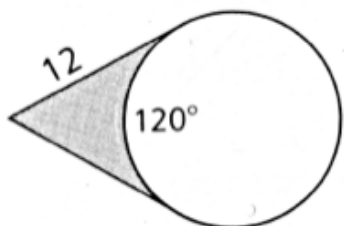
7. Convert from degrees to radians or radians to degrees:

a. 315°

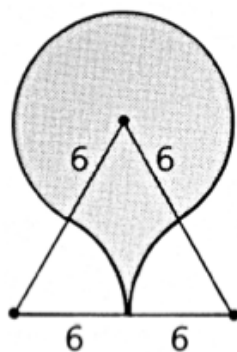
b. $\frac{7\pi}{6}$

c. 120°

8. Find the area of the shaded region.



9. Find the area of the shaded region.



10. Given: $\odot O$, EFGH is a parallelogram, $\widehat{HG} = 120^\circ$, $OJ = 6$.
Find: The perimeter of EFGH

