PreAP Geometry Chapter 12-13 Test review

Name		
Date	Period	

Figures are not drawn to scale. Exact answers or round to 3 decimal places unless specified otherwise.

1. Find x and y.



2. Find the mAB



3. If the area of the segment is $25\pi - 50$ square inches, what is the length of the radius of circle O?

4. If the area of the segment is π – 2 square inches, what is the length of the radius of circle O?

Write the equation of the following circles:



For 7 and 8, Graph the following equations and find the radius and center.



For 9, complete the square and find the center and radius of each circle.

9.
$$x^2 + y^2 - 4x + 10y + 20 = 0$$

Find the length of each arc. Leave your answers in terms of $\boldsymbol{\pi}.$



Find the area of the shaded sector. Leave your answers in terms of $\boldsymbol{\pi}.$



Find the area of the shaded segment of each circle. Leave your answers in terms of π .



Convert the radians to a degree measure and the degrees to a radian measure.

20.
$$2\pi/3 =$$
 21. $395^{\circ} =$