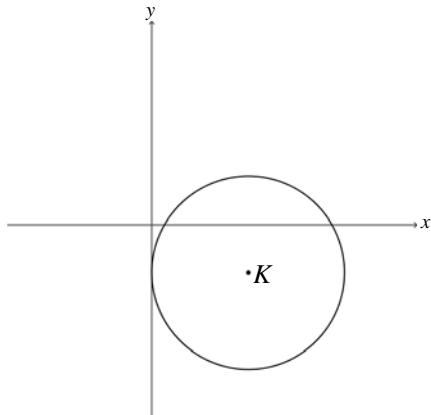
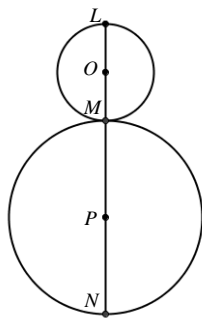


UB SAT 2009
 Homework #23
 Circles
 Due: Thurs, May 21

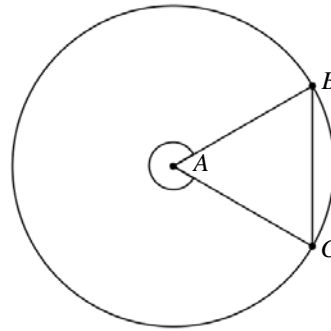


1. Point K is the center of the circle above, and the coordinates of Point K are $(2, -1)$. What is the area of the circle?
 (A) π (B) 2π (C) 4π (D) 6π (E) 8π

2. Circle P has a radius of 7 and Circle R has a diameter of 8. The circumference of Circle P is how much greater than the circumference of Circle R ?
 (A) π (B) 6π (C) 8π (D) 16π (E) 33π

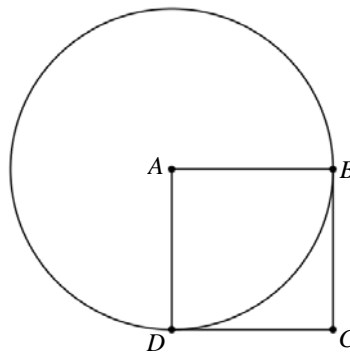


3. In the figure above, LM is $\frac{1}{3}$ of LN . If the radius of the circle with center P is 6, what is the area of the circle with center O ?
 (A) 4π
 (B) 9π
 (C) 12π
 (D) 18π
 (E) 36π



4. In the figure above, the circle has center A , and $BC = AB$. What is the degree measure of the marked angle?
 (A) 60°
 (B) 180°
 (C) 270°
 (D) 300°
 (E) 340°

5. What is the greatest number of distinct regions that could be formed by a circle overlapped by a triangle?
 (A) 3 (B) 4 (C) 6 (D) 7 (E) 8



6. Points D and B lie on the circle above with center A . If square $ABCD$ has an area of 16, what is the length of arc BD ?
 (A) 2π (B) 4 (C) 8 (D) 4π (E) 8π

