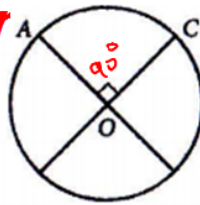


SAT Bellwork Tuesday 01/09

Grab a calculator



The circle above with center O has a circumference of 36. What is the length of minor arc \widehat{AC} ?

- A) 9
- B) 12
- C) 18
- D) 36

radius
central angle
intercepted arc
 $S = \frac{\pi}{180} \cdot \theta$

$$S = \frac{\pi}{180} \cdot \frac{36}{2\pi} \cdot 90 = 9$$

$$C = 2\pi r$$

$$36 = 2\pi r$$

$$\boxed{\frac{36}{2\pi} = r}$$



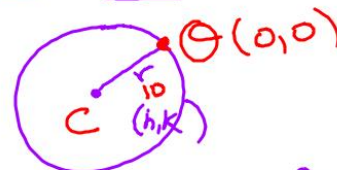
Which of the following equations describes a circle with radius 10 that passes through the origin when graphed in the xy -plane?

A. $(x-5)^2 + (y+5)^2 = 10$

B. $(x-5)^2 + (y+5)^2 = 100$

C. $(x-10)^2 + (y-10)^2 = 100$

D. $(x-5\sqrt{2})^2 + (y+5\sqrt{2})^2 = 100$



$$(x-h)^2 + (y-k)^2 = r^2$$