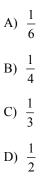


In the *xy*-plane above, *O* is the center of the circle, and the measure of $\angle POQ$ is $k\pi$ radians. What is the value of k?



3

In the *xy*-plane above, *O* is the center of the circle and the measure of $\angle AOD$ is $\frac{\pi}{3}$. If the radius of circle *O* is 6 what is the length of *AD*?

A) 3 B) $3\sqrt{2}$ C) 4.5 D) $3\sqrt{3}$

4

2

Which of the following is equal to $\cos(\frac{\pi}{8})$?

A)
$$\cos(\frac{3\pi}{8})$$

B) $\cos(\frac{7\pi}{8})$
C) $\sin(\frac{3\pi}{8})$
D) $\sin(\frac{7\pi}{8})$

In the figure above, what is the value of

∎ y

A(3,4)

 $\cos \angle AOD$?

A)
$$\frac{3}{5}$$

B) $\frac{3}{4}$
C) $\frac{4}{5}$
D) $\frac{4}{3}$

