

Given the following polar coordinate

$$(r, \theta)$$

There is an equivalent rectangular coordinates (x, y) such that...

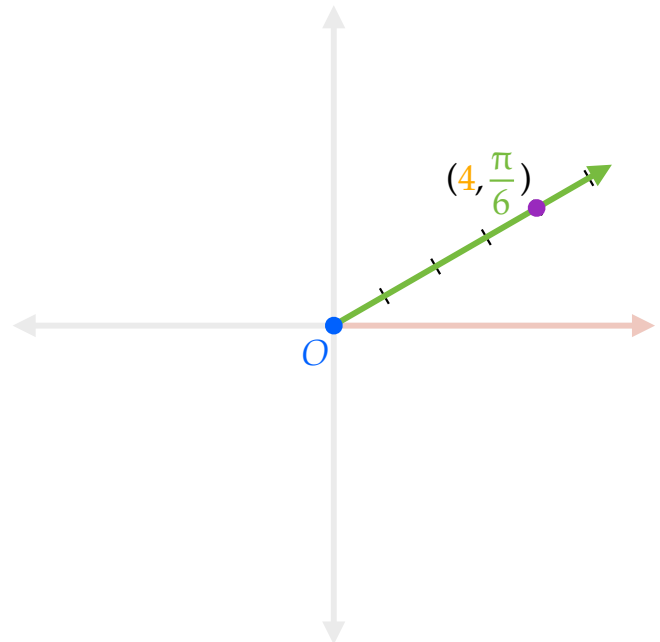
$$x = r \cdot \cos \theta \quad y = r \cdot \sin \theta$$

Convert the following polar coordinates to rectangular coordinates

$$\left(4, \frac{\pi}{6}\right)$$

$$x = r \cdot \cos \theta$$

$$y = r \cdot \sin \theta$$

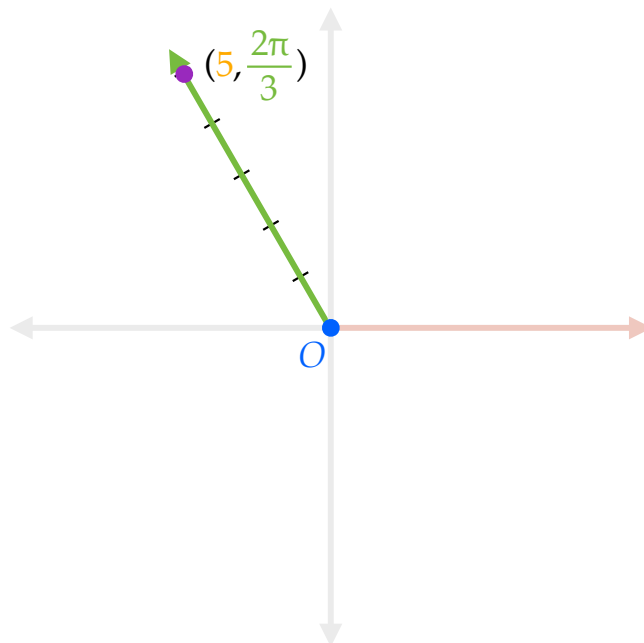


Convert the following polar coordinates to rectangular coordinates

$$(5, \frac{2\pi}{3})$$

$$x = r \cdot \cos \theta$$

$$y = r \cdot \sin \theta$$

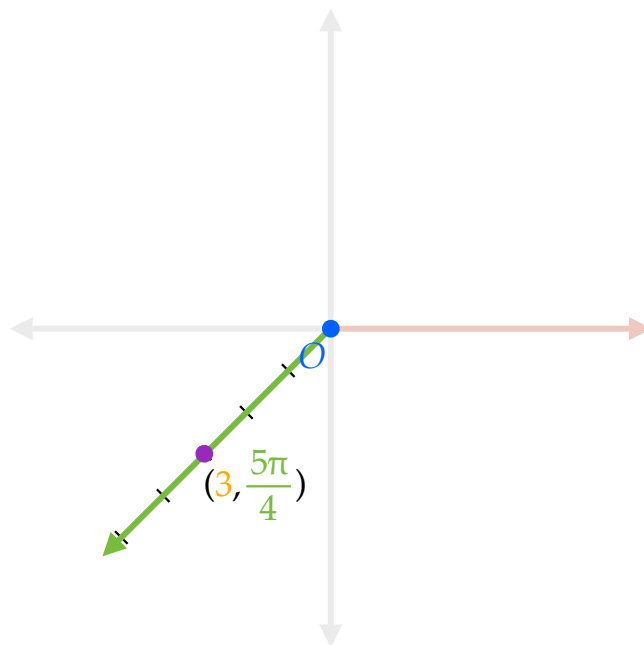


Convert the following polar coordinates to rectangular coordinates

$$(3, \frac{5\pi}{4})$$

$$x = r \cdot \cos \theta$$

$$y = r \cdot \sin \theta$$

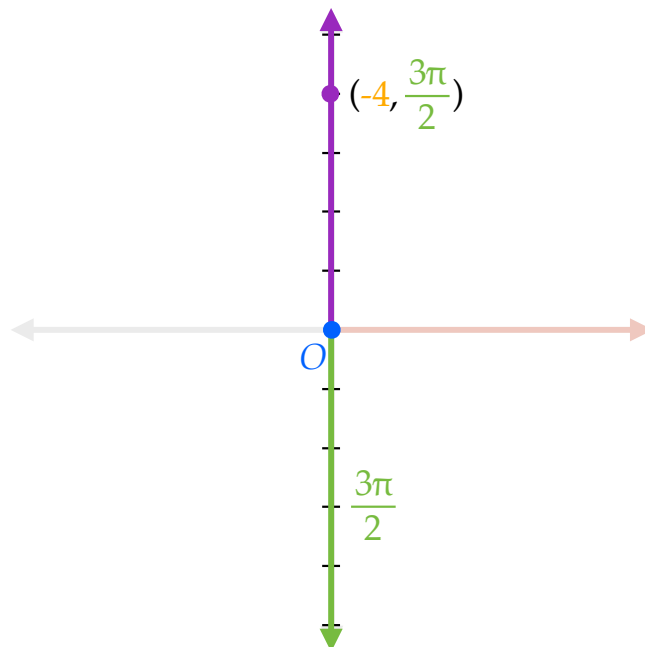


Convert the following polar coordinates to rectangular coordinates

$$(-4, \frac{3\pi}{2})$$

$$x = r \cdot \cos \theta$$

$$y = r \cdot \sin \theta$$

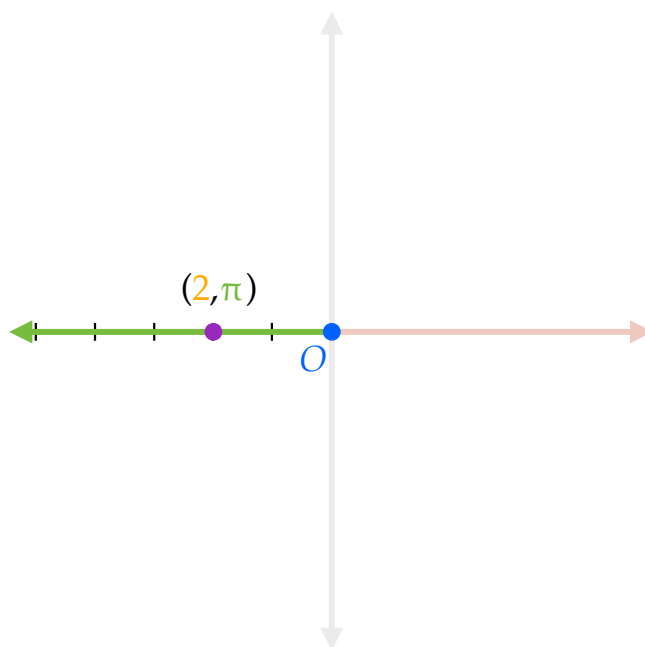


Convert the following polar coordinates to rectangular coordinates

$$(2, \pi)$$

$$x = r \cdot \cos \theta$$

$$y = r \cdot \sin \theta$$



Given the following polar coordinate

$$(r, \theta)$$

There is an equivalent rectangular coordinates (x, y) such that...

$$x = r \cdot \cos \theta \quad y = r \cdot \sin \theta$$