Name _____

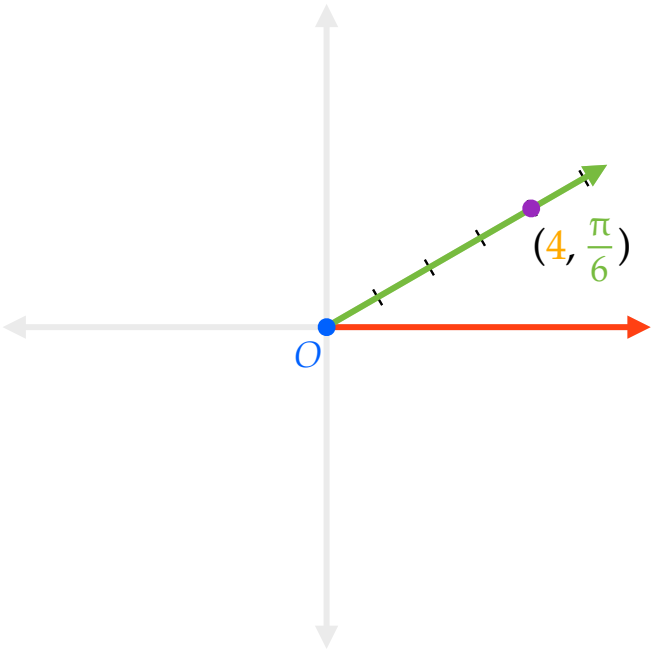
Finding Different Polar Coordinates for Same Point

Date _____ Period _____

Plot the following polar coordinates

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

$$r = 4 \quad \theta = \frac{\pi}{6}$$



Find three polar coordinates for this point

$r > 0$, $2\pi < \theta < 4\pi$

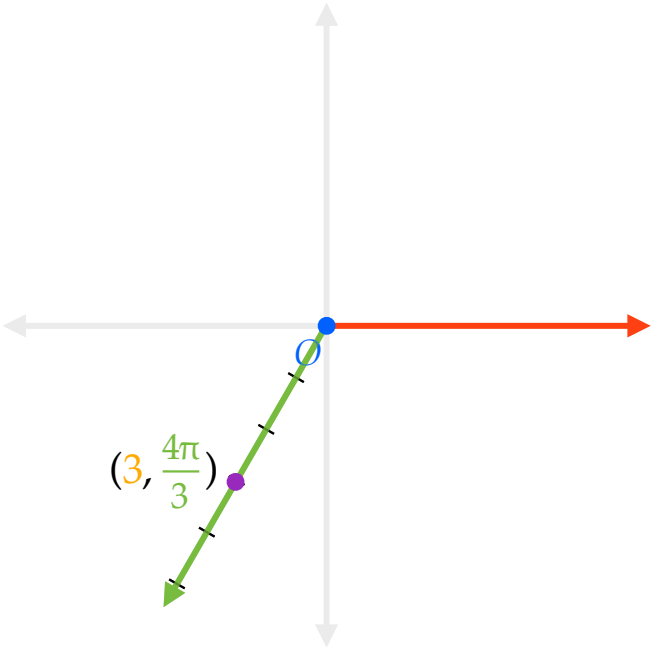
$r > 0$, $-2\pi < \theta < 0$

$r < 0$, $0 < \theta < 2\pi$

Plot the following polar coordinates

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

$$r = 3 \quad \theta = \frac{4\pi}{3}$$



Find three polar coordinates for this point

$r > 0$, $2\pi < \theta < 4\pi$

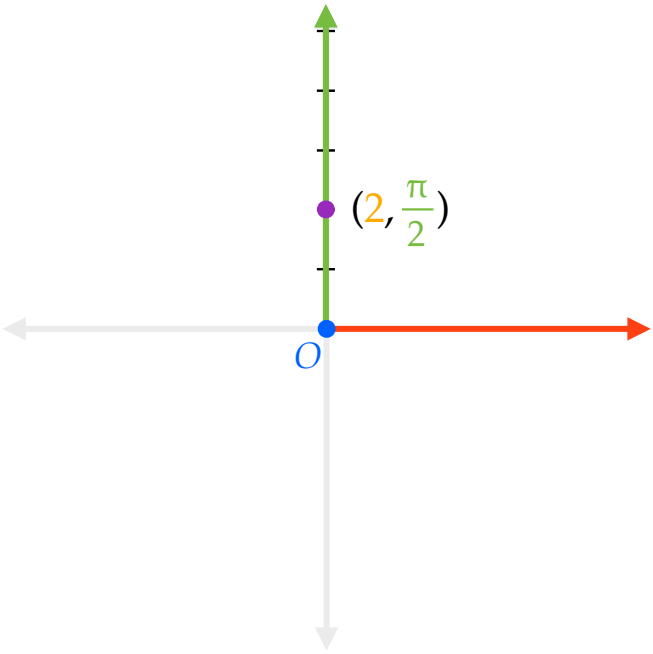
$r > 0$, $-2\pi < \theta < 0$

$r < 0$, $0 < \theta < 2\pi$

Plot the following polar coordinates

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

$$r = 2 \quad \theta = \frac{\pi}{2}$$



Find three polar coordinates for this point

$r > 0$, $2\pi < \theta < 4\pi$

$r > 0$, $-2\pi < \theta < 0$

$r < 0$, $0 < \theta < 2\pi$