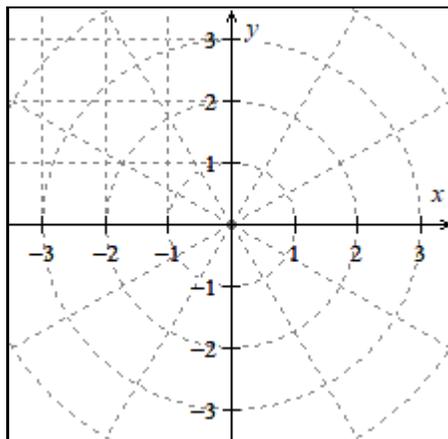# Class Discussion: Intro to Polar Coordinates

EXAMPLE: Plot the rectangular ordered pair $P = (-3, 2)$ and the polar ordered pairs $A = \left(3, \frac{4\pi}{3}\right)$ and $B = \left(-3, \frac{4\pi}{3}\right)$ on the coordinate plane.

Find a different polar ordered pair that is plotted at the same location as $B = \left(-3, \frac{4\pi}{3}\right)$. Is there a different rectangular ordered pair that's plotted at the same location as $P = (-3, 2)$?

EXAMPLE: Find a polar ordered pair that's plotted at the same location as the rectangular ordered pair $P = (-3, 2)$.
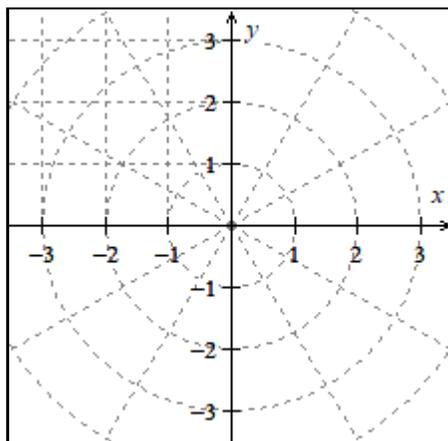
EXAMPLE: Find a rectangular ordered pair that's plotted at the same location as the polar ordered pair $A = \left(3, \frac{4\pi}{3}\right)$.
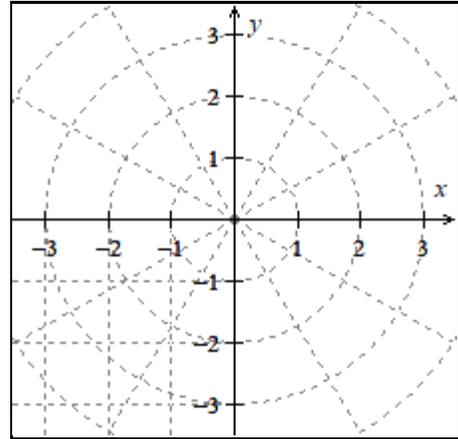
EXAMPLE: Let's use Desmos to discuss what it means to be a polar function vs. a rectangular function (and, more generally, what it means to be a function): www.desmos.com/calculator/yffpz8y3o0.