

Class Discussion

Unit 9 Topic 6 Polar Equation

$$r = f(\theta)$$

symmetry	criteria	graphing tips
polar axis	$f(\theta) = f(-\theta)$	$0 \rightarrow \pi$
$\theta = \frac{\pi}{2}$	$f(\theta) = f(\pi - \theta)$	$0 \rightarrow \frac{\pi}{2} \cup \frac{3}{2}\pi \rightarrow 2\pi$
pole	$f(\theta) = f(\theta + \pi)$	

Ex 1: Find the symmetry, zero of $r = \sqrt{3} - 2 \cos \theta$ and graph the polar equation

Ex 2: Find the symmetry, zero of $r = 2 + 2 \sin \theta$ and graph the polar equation