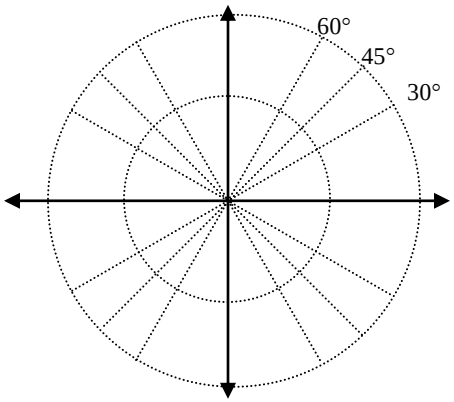
Name:_____

9.2 Graphs of Polar equations

1) Sketch a polar graph of $r = 2\sin\theta$

θ	0^o	30^o	45^o	60^o	90^o	120^o	135^o	150^o
r								

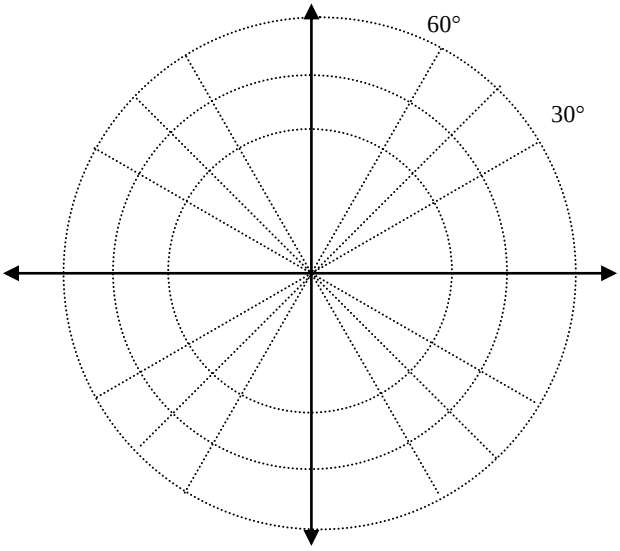
θ	180^o	210^o	225^o	240^o	270^o	300^o	315^o	330^o
r								



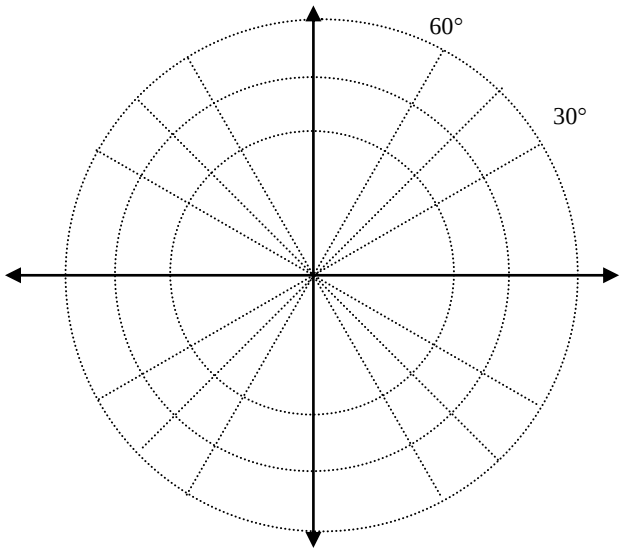
2) Sketch the polar graph of $r = 2\cos\theta - 1$

θ	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	$\frac{3\pi}{4}$	$\frac{5\pi}{6}$
r								

θ	π	$\frac{7\pi}{6}$	$\frac{5\pi}{4}$	$\frac{4\pi}{3}$	$\frac{3\pi}{2}$	$\frac{5\pi}{3}$	$\frac{7\pi}{4}$	$\frac{11\pi}{6}$
r								



3) Sketch a polar graph of $r = \frac{1}{2}\theta$

θ	0º	30º	45º	60º	90º	120º	135º	150º
r								

θ	180º	210º	225º	240º	270º	300º	315º	330º
r