

970-290-0550

Questions?

S10.1?

S10.2?

S10.3?

S10.4?

Test 4 Practice - Take the test  
on webaassign.net. You get 2 shots.

$$r^2 = 2cr \cos \theta$$

Symmetry:

Polar:

$$(-r)^2 = 2c(-r) \cos \theta$$

$r^2 = -2cr \cos \theta$  ain't the same

NO

Replace  $\theta$  by  $\theta + \pi$



Polar axis:

$$r^2 = 2cr \cos(-\theta)$$

$$r^2 = 2cr \cos \theta$$

Same

NO

$\theta = \frac{\pi}{2}$  (Vertical Axis)

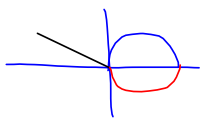
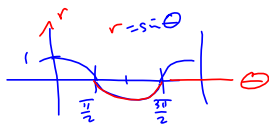
$$r^2 = 2cr \cos(\pi - \theta)$$

NO

$$= 2cr [\cos \pi \cos(\theta) - \sin \pi \sin(-\theta)]$$

$$= 2cr [-1 \cos \theta - 0]$$

$$r^2 = -2cr \cos \theta$$



Correcting some of my (crappy) notes.

<https://harryzaims.com/202/videos/chapter-10/10-3/10-3-notes.pdf>