

LAST NAME:

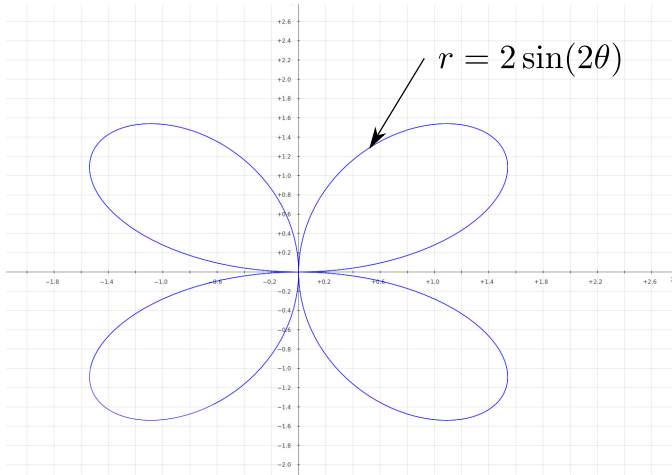
FIRST NAME:

MATH 009C - Summer 2017

Quiz 3: July 11, 2017

1. Find the area of one petal of the polar rose given by:

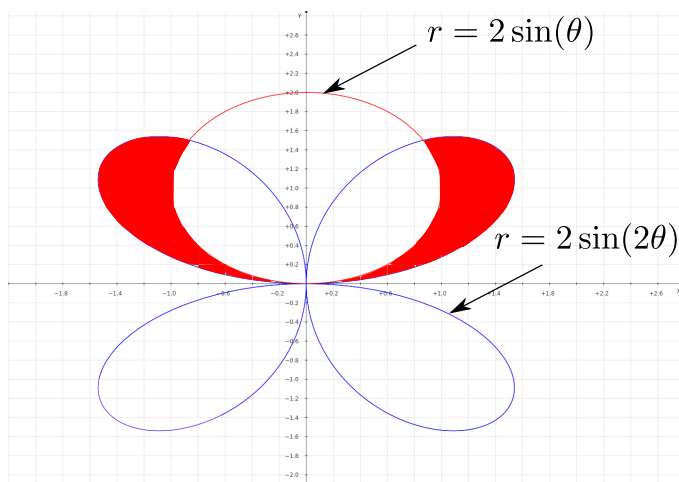
$$r = 2 \sin(2\theta)$$



Please, show all work.

2. Find the area of the region that lies outside the circle and inside the polar rose (the region is shaded in the labeled plot below).

$$r = 2 \sin(\theta) \quad r = 2 \sin(2\theta)$$



Please, show all work.