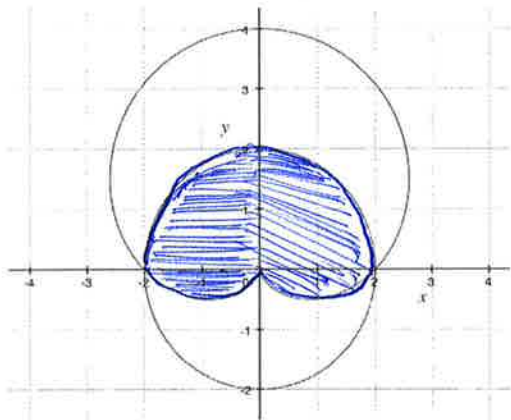


What's the area between your first and last name: _____

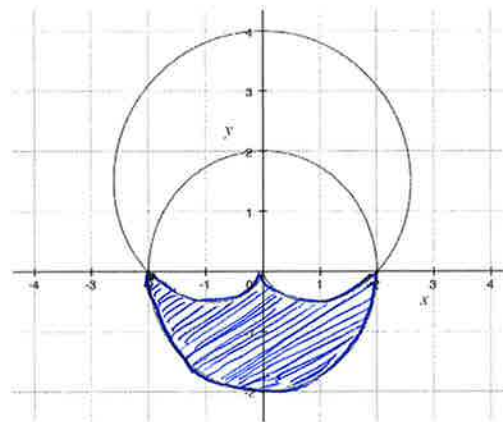
AP Calculus BC: 13.5 Polar Area Between Curves

Find the shaded region, using a calculator, for each of the following graphs. The functions are given.

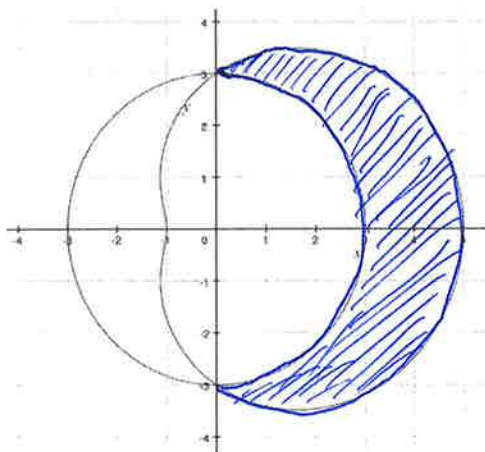
1. $r = 2$
 $r = 2 + 2\sin(\theta)$



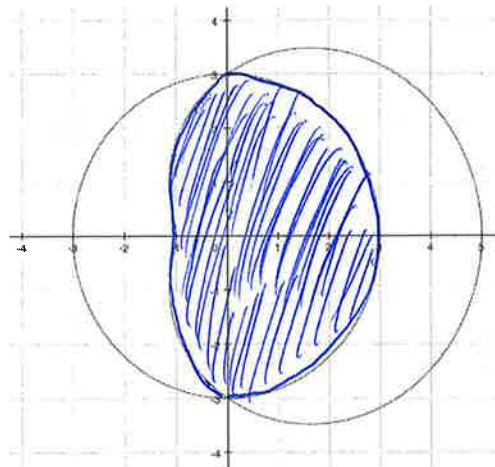
2. $r = 2$
 $r = 2 + 2\sin(\theta)$



3. $r = 3$
 $r = 3 + 2\cos(\theta)$

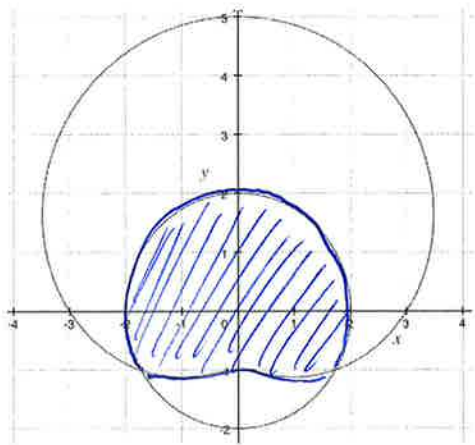


4. $r = 3$
 $r = 3 + 2\cos(\theta)$

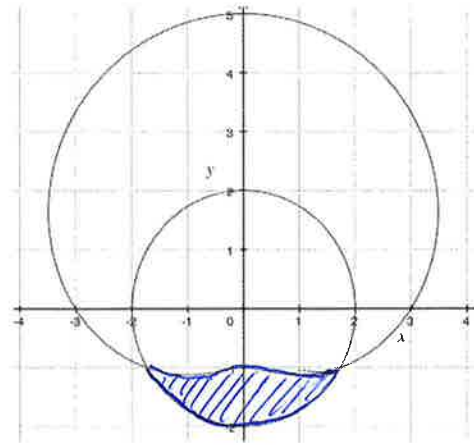


What's the area between your first and last name: _____

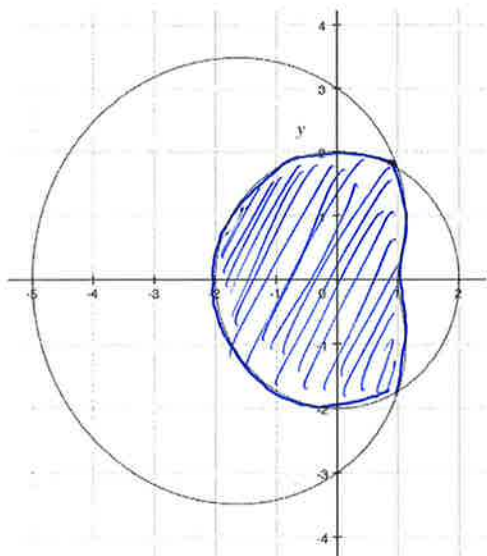
5. $r = 2$
 $r = 3 + 2\sin(\theta)$



6. $r = 2$
 $r = 3 + 2\sin(\theta)$



7. $r = 2$
 $r = 3 - 2\cos(\theta)$



8. $r = 2$
 $r = 3 - 2\cos(\theta)$

