Name:	Section:	
Clear your desk of everything except pens, pencils and erasers	Show all your work.	
If you have a question raise your hand and I will come to you.	, i i i i i i i i i i i i i i i i i i i	

- 1. (4 points) Find the area enclosed by $x = 2\cos t$, $y = 3\sin t$, $0 \le t \le 2\pi$.
 - Answer: 6π

(2 points for setting up the integral: $A = 4 \int_{\pi/2}^{0} 3\sin t (-2\sin t) dt$ and 2 points for the correct answer.)

(3 points) Draw the curve for polar equation r = 2 cos θ
Answer: It is circle of radius 1 centered at point (r, θ) = (1, 0).
(3 points for the correct picture)

3. (3 points) Find the area enclosed by polar equation r = 2.

Answer: 4π

(2 points for setting up the integral: $A = \int_0^{2\pi} \frac{1}{2} r^2 d\theta$ and 1 point for the correct answer.)