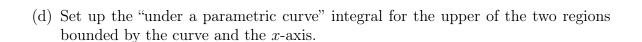
N.T	et 2 – September 2, 2015
Name _	
1. Consi	der the curve given by the polar equation $r = 2 - \sin \theta$.
(a) I	Make a rough sketch of the curve.
	Set up the "inside a polar curve" integral for the upper of the two regions bounded by the curve and the x -axis.
() -	Write the curve as a parametric equation.



2. Calculate the limits of the following sequences:

(a)
$$\lim_{n \to \infty} \frac{2n^3 + 3n^2 + 4}{6n^3}$$
.

(b)
$$\lim_{n \to \infty} \frac{\sin n + \cos n}{n}$$
.