

Math 181
Fall, 2008

Name _____

Homework #2
Due Monday, September 8
No late papers accepted! No excuses!

1. Find the length of the curve $x = 3\cos\theta$ $y = 3\sin\theta$ $0 \leq \theta \leq \frac{3\pi}{2}$.

2. Find the centroid of the region bounded by the parabola $y = x - x^2$ and the line $y = -x$.