Math 142 – Calculus 2	
Section 11.5 Video Workshee	t

Areas and Lengths in Polar Coordinates

Area in a plane

So divide

If f is continuous,

Area of the region $0 \le r_1(\theta) \le r \le r_2(\theta)$ $\alpha \le \theta \le \beta$

Length of a Polar Curve

Recall length