

M1B/Schoenbrun Lesson 10 Section 10.3 Polar Coordinates
Calculate the area enclosed by

1) $r = \cos(3\theta)$, $-\pi/6 \leq \theta \leq \pi/6$

2) $r = \tan(2\theta)$, $0 \leq \theta \leq \pi/8$

3) $r = 1 + \cos(\theta)$, $r = \cos(\theta)$, $0 \leq \theta \leq \pi$

4) Find the length of the curve $r = \theta$, $0 \leq \theta \leq 2\pi$

5) Use your calculator to find the length of the curve $r = 3 \sin(2\theta)$