

Section 10.4: Additional Problems

1) Find the area of the inner loop of $r = 2 + 4 \cos \theta$

2) Find the length of the curve $r = \frac{1}{\cos \theta}$ for $0 \leq \theta \leq \frac{\pi}{3}$. You may assume that the curve traces out exactly once for the given interval of θ .