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Math 201-133   Quiz 2   (B)

Name:..ID#:...............................Sec:............Ser:...........

Q.1: Sketch graphs and find area of the region that lies inside the circle $r = 3\sin(\theta)$ and outside the cardioid $r = 1 + \sin(\theta)$.

Q.2: Find length of the curve $r = 2\sin^3 \frac{\theta}{2}$, $0 \leq \theta \leq \pi$.