Q.1: Sketch the polar graph \( r^2 = \sin 2\theta \).

Q.2: Find area inside \( r = 1 \) and outside \( r = 1 - \sin(\theta) \).

Q.3: Find slope of the tangent line to the graph of \( r = 2 + \cos \theta \) at \( \theta = \frac{\pi}{3} \).