Q1) Consider the parametric equations \( x = t^2 + 1, \ y = t^2 + t \).
Find the equation of the tangent line to the curve at \( t = 2 \).

Q2) Sketch the curve with \( r = \sin \frac{\theta}{2}, \ 0 \leq \theta \leq \pi \) by first sketching the graph of \( r \) as a function of \( \theta \) in Cartesian coordinates.