1. Consider the curve defined parametrically by \( x = 2t^2 + 1 \) and \( y = 3t^3 + 2 \). Find the equation for the line tangent to the curve at time \( t = 1 \).

2. A curve \( C \) is defined by the parametric equations \( x = t^2 - 4t + 1 \) and \( y = t^3 \). Find the equation of the line tangent to the graph of \( C \) at the point \((-2, 27)\).

3. A curve \( C \) is defined by the parametric equations \( x = t^2 - 4t + 1 \) and \( y = t^3 \). Determine the times that the curve has a horizontal tangent and a vertical tangent.