Problem 1

Consider the implicit function

\[ y^4x - 4y^2x = -3 \]

Show that the point \((1, 1)\) is indeed on the graph and give the equation of the tangent line (if one exists).

Problem 2

Consider the implicit function

\[ y^4 - 4y^2 = x^4 - 9x^2 \]

Show that the point \((-3, 2)\) is indeed on the graph and give the equation of the tangent line.