1 [10 points] Find the equation of the tangent line to the graph of

\[ f(x) = (x^2 + 1)e^x \]

passing through the point \((x = 0, y = 1)\). Show all your work and explain the steps.

2 [10 points] Find the derivative of \( f(x) = \frac{\sin x}{x} - \frac{x}{\sin x} \). Show all work.