1. a) Calculate the derivative of $f(x) = 2x^2 + 3x + 6$.

b) Find the equation of the tangent line to $y = 2x^2 + 3x + 6$ at $x = 0$ and at $x = 2$.

2. Find the slope of the tangent line to $y = 2e^x + x^{5/3} + x$ at $x = 0$. 