1. State the formal definition of: \( \lim_{x \to A} h(x) = 9 \)

2. Compute each of the following:
   a. \( \frac{d \cos(3x + 1)}{dx} \)
   b. \( \frac{d(\sqrt[5]{s^2 - 4s + 8})}{dx} \)
   c. \( V = e^{4x} \) Find BOTH dV and V(L)
   d. \( E = mc^2 \) Find dE

3. Find the equation of the tangent line to \( f(x) = \sqrt[3]{x} \) at \( x = 8 \).

4. Use the tangent line found in problem 3 to estimate \( \sqrt[3]{9} \)