Quiz #6

NAME:____________________________________________________

1. State the definition of: \( \lim_{x \to 8} (2x - 7) = 9 \)

Compute the derivatives of each of the following:

2. \( f(x) = 4x^2 + 7x^5 + 5^x \)

3. \( P = \frac{x^3}{x^2 + 2} \)

4. \( S = 7^x \cdot (x^4 + 5) \)

5. Find the equation of the tangent line to \( f(x) = \sqrt{x} \) at \( x = 4 \).