

3. (2 points) Find the equation of the line tangent to the graph of $y = x^3 - 16x$ at $x = 5$.

4. (3 points) Find derivatives of the following functions. Use Leibniz notation for the derivative.

(a) $y = \ln(3x^5 + 10x^2 + 25)$

(b) $h = \frac{6}{r^3}$

(c) $P = 5t^2e^{-t}$