Calculus - Differentiation

Grade 11 | Difficulty: Medium

- 1. Find d/dx of $f(x) = x^4 3x^2 + 2$.
- 2. Differentiate: $y = e^x \ln(x)$.
- 3. Find the second derivative of $f(x) = \sin(x)$.
- 4. Determine the concavity of $f(x) = x^3 3x + 2$.
- 5. Find the equation of the tangent line to $f(x) = x^2$ at x = 1.