Name: [1 pt]

Problem 1. Find the derivative of the polynomial $f(x) = x^{100} - x^{10} + x + 1000$. [5 pts]

Problem 2. A particle moves along x-axis with its displacement varying with time as $s(t) = t^3 - 3t$. Find the time interval when the particle is moving to the left. [5 pts]