Math 225 : Quiz **Sept. 16, 1991**

Show your work on a blank sheet of paper with your name and date at the top (no torn edges). Circle your final answer. You may use a calculator.

1. Find the equation of the line tangent to the curve

$$(t) = (t^3 - 1) \subset +t^2 \supset +t$$

at the point $(7, 4, 2)$.

2. A particle's position is

$$(t) = \cos(t^2) \subset +\sin(t^2) \supset$$

Compute its speed at $t = 3$.