Name: _____

ID #: _____
(Show Your Work)

1. Find the absolute maximum and absolute minimum of $f(x) = x\sqrt{4 - x^2}$ on $[-1, 2]$.
(5 points)

2. Verify that $f(x) = x^3 + x - 1$ satisfies the Mean Value Theorem on the interval $[0, 2]$. Find all numbers that satisfy the theorem. (5 points)