

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Instructions: Though calculators can be used for the entire daily question, all problems require you to show your work. Any answer without proper justification will receive **ZERO** credit. Only **EXACT** answers will receive full credit unless otherwise noted.

1. State the Mean Value Theorem (MVT).

2. Determine all values of  $x$  that satisfy the MVT for  $f(x) = x^3 - x$  on  $[0, 2]$