Name: _____   Date: _____

Instructions: Though calculators can be used for all the questions, 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.

Use Newton's Method to determine the first positive root of $f(x) = \tan x - 2x$

1.   Determine the formula to find the $n + 1$ root

2.   Use an initial value of $x = 1.5$ and your calculator to approximate the sought after root.   Terminate the process when successive iterations agree to 4 decimal places.