NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points) Show that the equation $x^5 + 5x - 2 = 0$ has exactly one real root.

Exercise 2 (5 points) Find the local extremums to the curve $y = (x-2)\sqrt{x}$

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points) Find the local extremums to the curve $y = (x-1)\sqrt{x}$

Exercise 2 (5 points) Show that the equation $x^9 + 9x - 2 = 0$ has exactly one real root.