

Math 143/Newton's Method Activity sheet.

Burger

Instructions: Make a rough sketch of the graphs of the following functions using a graphing calculator and then use Newton's method to find the approximate root values. (If a polynomial, analyze using Descartes' rule of signs for practice!)

1. $x^7 + 4x^3 + 12 = 0$

2. $\cos x - x^2 = 0$

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3. $e^{2x} + 5x = 0$

4. $6x - \sqrt{1 - x^2} = 0$