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4.5 Linearization and Newton’s Method

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Sec 4.5 Linearization & Newton's Method 4.5 Linearization and Newton¢ s Method Linearization If f is differentiable at x =a, then L HxL=f HaL+f ¢ HaL Hx-aL is the linearization of f at a. Newton¢ s Method 1. Guess an approximation to the solution of f HxL=0 2. Find successive approximations with x 4.5 Linearization and Newton’s Method

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Linearization and Newtons Method - AP Calculus 428 4.5 ...

4.5 Linearization and Newton's Method Objective SWBAT ?nd linear approximation, use Newton's Method, estimating change with differentials, absolute relative, and percentage change, and sensitivity to change. Linear Approximation In our study of the derivative we frequently referred to the "tangent line to the curve" at a point.

4.5 Linearization and Newton's Method Objective Linear ...

4.5 Linearization & Newton’s Method Linear Approximation Exploration Approximating with Tangent Lines Let f x( )= x2. Use your graphing calculator in this exploration. 1. Show that the line tangent to the graph of f at the point (1,1) is y = 2x ?1. 2. Set y1 = x 2 and y 2 = 2x ? 1. Zoom in on the two graphs at (1,1). What do you see?

Sec 4.5 Linearization & Newton's Method

4.5 Notes.notebook 1 November 04, 2014 Oct 278:13 PM 4.5 Linearization and Newton's MethodName: _____ Objectives: Students will be able to find linearizations and use

4.5 Linearization and Newton's MethodName:

4.5 Linearization and Newton¢s Method Linearization If f is differentiable at x=a, then LHxL=fHaL+f¢HaL Hx-aLis the linearization of f at a. Newton¢s Method 1. Guess an approximation to the solution of fHxL=0 2.

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This method for approximating roots of equations is called Newton's method (or the Newton-Raphson method). Newton's Method Again, as we see in the picture, the x-intercept of this line IS "closer" to the desired root than our second approximation By setting y = 0 and solving for

x, we get 0.4 0.2 1 -0.2 -0.4 193 132 49 (11 193

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Example () f x f Example y =+x
4.5 Linearization and Newton¢s Method Linearization If f is differentiable at x=a, then LHxL=fHaL+f¢HaL Hx-aLis the linearization of f at a. Newton¢s Method 1. Guess an approximation to the solution of fHxL=0 2.

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Example () f L x L x f Example y =+x
Chapter 4: Applications of Derivatives Section 4.5: Linearization and Newton’s Method (page 233) Notes • Linearization: If f is differentiable at x=a, then the equation of the tangent line L(x) = f(a) + f’(a)(x - a) defines the linearization of f at a. The approximation f(x) = L(x) is the standard linear approximation of f at a.

Chapter 4: Applications of Derivatives Section 4.5 ...
So the equation of the tangent line at x is equal to 4, and then we use that linearization, that linearization defined to approximate values local to it, and this technique is called local linearization. So what I'm saying is, let's figure out what this, the equation of this line is. Let's call that l of x.