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Approximation, Differentials, Tangent

Line, Linearization, $f(x)$, dy , dx -

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~~linearize the nonlinear ODE for a
simple pendulum Newton's Method (1
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Trimming and Linearization, Part 1:
What is Linearization? How to Do
Implicit Differentiation (NancyPi)~~

4.5 linearization and differentials

Linear Approximation and Differentials
(151 3.10) ~~Finding the Linearization at
a Point / Tangent Line Approximation~~

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2019 Sep 48:03 PM Approximating

Binomial Powers General linearization

or binomials $(1+x)^k \approx 1+kx$ This is for

very small values of x . Ex. 3 Using the

formula above, find a linear

approximation for $\ln(1+x)$ Try Using the

formula above, find a linear

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Method

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2014 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

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approximation $f(x) \approx L(x)$ is the standard linear approximation of f at a .

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September 02, 2014 Linearization If f

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$L(x)=f(a)+f'(a)(x-a)$ Defines the

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approximation $f(x) \approx L(x)$ is the standard

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Method 4.5 Linearization and Newton's

s Method Linearization If f is

differentiable at $x = a$, then $L(x) = f(a) + f'(a)(x - a)$

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$H_a + f'(a)(x-a)$ is the linearization of f at a . Newton's Method 1. Guess an approximation to the solution of $f(x)=0$ 2. Find successive approximations with x

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

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4.5 Linearization and Newton's

Method Objective SWBAT find 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

$f(x) = x^2$. 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 $y_1 = x^2$ and $y_2 = 2x - 1$. Zoom in on the two graphs at $(1,1)$. What do you see?

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Sec 4.5 Linearization & Newton's
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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

$L(x) = f(a) + f'(a)(x-a)$ is the
linearization of f at a . Newton's

Method 1. Guess an approximation to
the solution of $f(x) = 0$ 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

Linearization and Newton's Method

Period 8 Nicolas Barroga Arthur

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4.5 LINEARIZATION AND
NEWTON'S METHOD Linearization
The goal of linearization is to

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approximate a curve with a line. Why? Because it's easier to use a line than a curve! The basic idea of linearization is to find the equation of the tangent line at a certain point, and use the tangent line to estimate the desired value of the original function. Example: Consider $f(x) = x^2$. We all know that $f(4) = 16$, but without a calculator, what is $f(4.1)$?

Example $f(x) = x^2$ Example $y = \sqrt{x}$
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Method Linearization If f is

differentiable at $x=a$, then
 $L(x) = f(a) + f'(a)(x-a)$ is the
linearization of f at a . Newton's
Method 1. Guess an approximation to
the solution of $f(x) = 0$ 2.

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4.5 LINEARIZATION AND

NEWTON'S METHOD Linearization

The goal of linearization is to approximate a curve with a line. Why? Because it's easier to use a line than a curve! The basic idea of linearization is to find the equation of the tangent line at a certain point, and use the tangent line to estimate the desired value of the original function. Example: Consider $f(x) = x^2$. We all know that $f(4) = 16$, but without a calculator, what is $f(4.1)$?

Example $f(x) = x^2$ Example $y = x^2$

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

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approximation $f(x) \approx L(x)$ 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 .

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