Calculus Maximus Notes 2 1 Tangent Line Problem 2 1

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CALCULUS MAXIMUS. AP

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Calculus Maximus Notes: 2.1 Tangent Line Problem Page 2 of 10 Example 2: For ± ² 2 3 f x x x ³, (a) find the average rate of change between the points ± ² ± ² 1, 1 f and ± ² ± ² 1, 1 h f h ´ ´, where h is the change in x between our two x-values. Simplify your function, ± ² A h.

NOTES 02.1 Tangent Line Prob – Diffability(2) - Calculus ...

Here are the first few steps. $y = \square$ $x - 3 \square$ $x = \square$ $y - 3$ $y = x - 3 \square$ $x = y - 3$. Now, to solve for y y we will need to first square both

sides and then proceed as normal. $x = \square\, y - 3\ x\ 2 = y - 3\ x\ 2 + 3 = y\ x = y - 3\ x\ 2 = y - 3\ x\ 2 + 3 = y$. This inverse is then, $g - 1\ (\ x) = x\ 2 + 3\ g - 1\ (\ x) = x\ 2 + 3$.

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If − □ □ + +3 ( ) 3x g x x x2, find 1 lim ( ) x g x →−. Summary: 1. Calculate the limit of the top and bottom piece of bread separately. 2. If they are the same, restate or state the squeeze compound inequality. 3. Say, "so, by the Squeeze Theorem…," then stat e the limit of the unknown sandwiched function. 4. Smile and eat a sandwich (optional).

§1.2 – Properties of Limits - korpisworld

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10 Example 2: For ± ² 2 3 f x x x ³, (a) find the average rate of change between the points ± ² ± ² 1, 1 f and ± ²

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Calculus Maximus Notes: 2.3 Differentiation Rules Page 1 of 7

§2.3—Differentiation Rules dy dx is a noun. It means "the derivative of y with respect to x." d dx is a verb. It means "take the derivative with ...

NOTES 02.3 Differentiation Rules

h = 3 + 14t − 5t 2. and came up with this derivative: h = 0 + 14 − 5(2t) = 14 − 10t. Which tells us the slope of the function at any time t . We used these Derivative Rules: The slope of a constant value (like 3) is 0; The slope of a line like 2x is 2, so 14t has a slope of 14; A square function like t 2 has a slope of 2t, so 5t 2 has a ...

Finding Maxima and Minima using Derivatives

Calculus Maximus WS 2.5: Rates of Change & Part Mot I Page 1 of

8 Name_____ Date_____ Period_____ Worksheet 2.5—Rates of Change and Particle Motion I Show all work. No calculator unless otherwise stated. Short Answer 1. Let Ex( )be the elevation, in feet, of the Mississippi River x miles from its headwaters at Lake ...

~~Ex ( )~~

Calculus Maximus Notes 9.1: Conv & Div of Seq & Ser Page 1 of 15 §9.1—Sequences & Series: Convergence & Divergence A sequence is simply list of things generated by a rule More formally, a sequence is a function whose domain is the set of positive integers, or natural numbers , ...

NOTES 09.1 Sequences & Series
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Calculus Maximus Notes: 2.4 Product & Quotient Rules Page 1 of 6 §2.4—Product & Quotient Rules fx( ) is the y-value generating "machine." fx( ) is the slope value generating "machine." The INCORRECT ...

NOTES 02.4 Product Quotient & Higher - korpisworld
This book covers the following topics: Field of Reals and Beyond, From Finite to Uncountable Sets, Metric Spaces and Some Basic

Topology, Sequences and Series, Functions on Metric Spaces and Continuity, Riemann Stieltjes Integration. Author (s): Evelyn Silvia. NA Pages.

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Calculus Maximus Notes P2: Parent Functions & Transformations Page 3 of 8 x fx x 2 1 1 fx x cosh 1 2 fx e e x xx fx x >@ Let's take one of these functions and express it in the remaining two ways §1.2—Properties of Limits - korpisworld

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Calculus Maximus Notes: 2.1 Tangent Line Problem Page 3 of 9 *Listen closely and you can hear Galileo grumbling in his grave! The slope function found in the previous example called the derivative function of f x, or f x (read as " f prime of x "). It can be used to find the slope of the tangent line to a graph at a point.

NOTES 02.1 Tangent Line Prob & Diffability - Calculus ...

Calculus Maximus Notes: 2.3 Differentiation Rules Page 1 of 7 §2.3—Differentiation Rules dy dx is a noun. It means "the derivative of y with respect to x." d dx is a verb. It means "take the derivative with respect to x " of the expression that follows. The Constant Rule The derivative of a constant function is 0.

NOTES 02.3 Differentiation Rules - Calculus Maximus Notes ...

Calculus Maximus Notes 3.1: Extrema on an Interval Page 3 of 8 Here are some examples of functions on [], a b where the EVT applies. If the hypothesis ("if" part) is not met, either the

continuity or the closed interval part, there is no guarantee of the conclusion, but a max, min, or both still may exist, they are both just not guaranteed.

NOTES 03.1 Extrema on an Interval - Calculus Maximus Notes ...

Calculus Maximus Notes 3.3: Inc, Dec, 1 st Deriv Test Page 3 of 6 Here's the visualization of the First Derivative Test with justifications. The four graphs below show continuous functions ( ) f x with critical values x c = marked.

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