Khyle Calpe

405016683

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Math 31A Lecture Notes: Chain rule

Example:

Step 1:

Step 2: ; h is extremely small

Step 3: ; h(g'(x)) is equivalent to h'

Theorem; *Chain Rule*: Assume f, g are differentiable them also f ∘ g is differentiable and

Example 1:

Leibniz notation:

Example 2:

|  |  |
| --- | --- |
|  |  |

Leibniz notation: