

MATH 150

Today

1. 2.4: The Chain Rule
2. WeBWorK
3. Homefun

Goals:

1. The Chain Rule (understand the application of the chain rule)
2. Implicit differentiation (understand implicit differentiation and its connection to the Chain Rule)

Where is today's material used?

1. Derivatives appear in all of the sciences (physics, chemistry, biology, ...)
2. Economics (marginal cost/revenue/profit)

Chapter 2: Derivatives

1. The Chain Rule: $\frac{d}{dx}(f(g(x))) = f'(g(x))g'(x)$.
2. Implicit differentiation
3. Examples. p. 216: 9, 21, 22, 23, 25 35, 37, 45, 69, 71, 75, 77

Next Time

1. Watch Section 3.1 [35 min]