

## Chain Rule Recap

$$\frac{dy}{dx} = \frac{dy}{du} \cdot \frac{du}{dx}$$

\* If we think in terms of "primes":

$$(e^{\text{stuff}})' = e^{\text{stuff}} \cdot (\text{stuff})'$$

$$[\sin(\text{stuff})]' = \cos(\text{stuff}) \cdot (\text{stuff})'$$

$$[(\text{stuff})^n]' = n(\text{stuff})^{n-1} (\text{stuff})'$$

\* All primes denote derivative with respect to  $x$ .