Goal: Differentiate functions of the form f(g(x)). Summary:

$$(f(g(x)))' = f'(g(x)) \cdot g'(x)$$

$$\frac{d}{dx}(f \circ g) = \frac{df}{dg} \cdot \frac{dg}{dx}$$

$$[g(x)^p]' = p(g(x))^{p-1} \cdot g'(x) \quad (b^x)' = b^x \cdot \ln(b) \quad (\sin(\theta^\circ))' = \frac{\pi}{180}\cos(\theta^\circ)$$