

#### Power Rule

if  $f(x) = ax^n$  then  $f'(x) = anx^{(n-1)}$

#### Product Rule

if  $f(x) = g(x) \cdot h(x)$  then  $f'(x) = g'(x) \cdot h(x) + h'(x) \cdot g(x)$

#### Quotient Rule

If  $f(x) = g(x)/h(x)$  then  $f'(x) = (h(x) \cdot g'(x) - g(x) \cdot h'(x))/h(x)^2$

SIMPLE WAY TO REMEMBER: Lodhi - hidlo all over lolo

lo = bottom hi = top d adds derivative in front

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