Khan Academy

Derivative rules review

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Review all the common derivative rules (including Power, Product, and Chain rules).

Basic differentiation rules

Constant rule: $\dfrac{d}{dx}(k) = 0$

Sum rule: $\dfrac{d}{dx}[f(x) + g(x)] = f'(x) + g'(x)$

Difference rule: $\dfrac{d}{dx}[f(x) - g(x)] = f'(x) - g'(x)$

Constant multiple rule: $\dfrac{d}{dx}[kf(x)] = kf'(x)$

Want to learn more about the basic differentiation rules? Check out [*this video*](#)*.*

Power rule

$$\dfrac{d}{dx}(x^n) = n \cdot x^{n-1}$$

Want to learn more about the Power rule? Check out [*this video*](#)*.*

Up next: Quiz 1