

## Calculus: Derivative Formulas

### Non-Chain-Rule

$$\frac{d}{dx} X^n = n \cdot X^{n-1}$$

$$\frac{d}{dx} \sin x = \cos x$$

$$\frac{d}{dx} \cos x = -\sin x$$

$$\frac{d}{dx} \tan x = \sec^2 x$$

$$\frac{d}{dx} \cot x = -\csc^2 x$$

$$\frac{d}{dx} \sec x = \sec x \tan x$$

$$\frac{d}{dx} \csc x = -\csc x \cot x$$

### Inverse trig functions

$$\frac{d}{dx} (\sin^{-1} u) = \frac{u'}{\sqrt{1-u^2}}$$

$$\frac{d}{dx} (\cos^{-1} u) = \frac{-u'}{\sqrt{1-u^2}}$$

$$\frac{d}{dx} (\tan^{-1} u) = \frac{u'}{1+u^2}$$

$$\frac{d}{dx} (\cot^{-1} u) = \frac{-u'}{1+u^2}$$

$$\frac{d}{dx} (\sec^{-1} u) = \frac{u'}{|u| \sqrt{u^2-1}}$$

$$\frac{d}{dx} (\csc^{-1} u) = \frac{-u'}{|u| \sqrt{u^2-1}}$$

### Chain-Rule

$$\frac{d}{dx} u^n = n \cdot u^{n-1} \cdot u'$$

$$\frac{d}{dx} \sin(u) = \cos(u) \cdot u'$$

$$\frac{d}{dx} \cos(u) = -\sin(u) \cdot u'$$

$$\frac{d}{dx} \tan(u) = \sec^2(u) \cdot u'$$

$$\frac{d}{dx} \cot(u) = -\csc^2(u) \cdot u'$$

$$\frac{d}{dx} \sec(u) = \sec(u) \tan(u) \cdot u'$$

$$\frac{d}{dx} \csc(u) = -\csc(u) \cot(u) \cdot u'$$

$$\frac{d}{dx} e^u = e^u \cdot u'$$

$$\frac{d}{dx} \ln u = \frac{1}{u} \cdot u' = \frac{u'}{u}$$

### Product and Quotient Rules

$$\frac{d}{dx} (u \cdot v) = u \cdot v' + v \cdot u'$$

$$\frac{d}{dx} \left[ \frac{u}{v} \right] = \frac{v \cdot u' - u \cdot v'}{v^2}$$

# Std12 Derivative Formula Sheet

**VM Jensen**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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