

Formulas of chapter no 2

Trigonometric formulas

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

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

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

$$\frac{d}{dx}(\cot x) = -\operatorname{cosec} x \frac{d}{dx}(x)$$

$$\frac{d}{dx}(\operatorname{cosec} x) = -\operatorname{cosec} x \cot x \frac{d}{dx}(x)$$

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

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Page 1 of 1