

Ters Trigonometrik Fonksiyonların Türevi

$$\frac{d}{dx} (\text{arc sin } (x)) = \frac{1}{\sqrt{1-x^2}}$$

Örnekler :

$$\frac{d}{dx} (\text{arcsin}(f(x))) = \frac{f'(x)}{\sqrt{1-f^2(x)}}$$

$$\frac{d}{dx} (\text{arc sin}(7x)) = \frac{7}{\sqrt{1-49x^2}}$$

$$\frac{d}{dx} (\text{arc sin } (10x)) = \frac{10}{\sqrt{1-100x^2}}$$

Ters Trigonometrik Fonksiyonların Türevi

$$\frac{d}{dx} (\arccos(x)) = -\frac{1}{\sqrt{1-x^2}}$$

Örnekler :

$$\frac{d}{dx} (\arccos(f(x))) = -\frac{f'(x)}{\sqrt{1-f^2(x)}}$$

$$\frac{d}{dx} (\arccos(5x)) = -\frac{5}{\sqrt{1-25x^2}}$$

$$\frac{d}{dx} (\arccos(10x)) = -\frac{10}{\sqrt{1-100x^2}}$$

Ters Trigonometrik Fonksiyonların Türevi

$$\frac{d}{dx} (\text{arc tan } (x)) = \frac{1}{1 + x^2}$$

Örnekler :

$$\frac{d}{dx} (\text{arctan } (f(x))) = \frac{f'(x)}{1 + f^2(x)}$$

$$\frac{d}{dx} (\text{arctan } (5x)) = \frac{5}{1 + 25x^2}$$

$$\frac{d}{dx} (\text{arc tan } (10x)) = \frac{10}{1 + 100x^2}$$

Ters Trigonometrik Fonksiyonların Türevi

$$\frac{d}{dx} (\text{arc cot } (x)) = - \frac{1}{1 + x^2}$$

Örnekler :

$$\frac{d}{dx} (\text{arccot}(f(x))) = - \frac{f'(x)}{1 + f^2(x)}$$

$$\frac{d}{dx} (\text{arccot} (6x)) = - \frac{6}{1 + 36x^2}$$

$$\frac{d}{dx} (\text{arc cot} (11x)) = - \frac{11}{1 + 121x^2}$$