

Constant Rule: $\frac{d}{dx}[c]=$

Constant Multiple Rule: $\frac{d}{dx}[cf(x)]=$

Power Rule: $\frac{d}{dx}[x^n]=$

Multiplication Rule: $\frac{d}{dx}[f(x)g(x)]=$

Quotient Rule: $\frac{d}{dx}\left[\frac{f(x)}{g(x)}\right]=$

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

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

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

$$\frac{d}{dx}[\csc(x)]=$$

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

$$\frac{d}{dx}[\cot(x)]=$$

Definition of a derivative at a point $(c, f(c))$.

General Definition of a Derivative:

Alternate Form of a Derivative at a point $(c, f(c))$:

Given Position $s(t)$

Velocity is

Acceleration is