

Differentiation

Turning Point

Stationary Point

Maximum

Minimum

All mean that $\frac{dy}{dx} = 0$

If $\frac{d^2 y}{dx^2} > 0$ *minimum*

If $\frac{d^2 y}{dx^2} < 0$ *maximum*

Integration

Area under curve between a and b = $\int_a^b y dx$