Definition of an Inflection Point:

A function f has an inflection point at (c, f(c)) if

- (1) f''(c) = 0 or f''(c) does not exist, and if
- (2) f changes concavity at x = c.

Point of Inflection

Let f be a functions whose second derivative exists on any interval. If f is continuous at x = c, f''(c) = 0 or f''(c) is undefined, and f''(x) changes sign at x = c, then the point (c, f(c)) is a point of inflection.