Intermediate Value Theorem

If the function f(x) is continuous on [a, b], and k is a number between f(a) and f(b), then there exists at least one number x=c in the open interval (a, b) such that

$$f(c) = k$$
.

Intermediate Value Theorem

If f is a continuous function on the closed interval [a, b] and k is any number between f(a) and f(b), then there exists at least one value of c on [a, b] such that f(c) = k. In other words, on a continuous function, if f(a) < f(b), any y - v value greater than f(a) and less than f(b) is guaranteed to exists on the function f.

Intermediate Value Theorem:

If f is continuous on [a, b] and k is any number between f(a) and f(b), then there is at least one number c between a and b such that f(c) = k.