Lecture 16-Highlights © Katy Craig, 2024

, MAJOR THEOREM 7

Thm (Intermediate Value Theorem):

If f is continuous on an interval I = dom(f),

then for all $a,b \in I$, if y lies between f(a) and f(b)then there exists x between a and b s.t. f(x) = y.

either fla) = y = f(b) or f(b) = y = f(a)

either a \x \x \x \x \x \x \x \x

Ex:

f(b)

f(a)

1

a x b I

