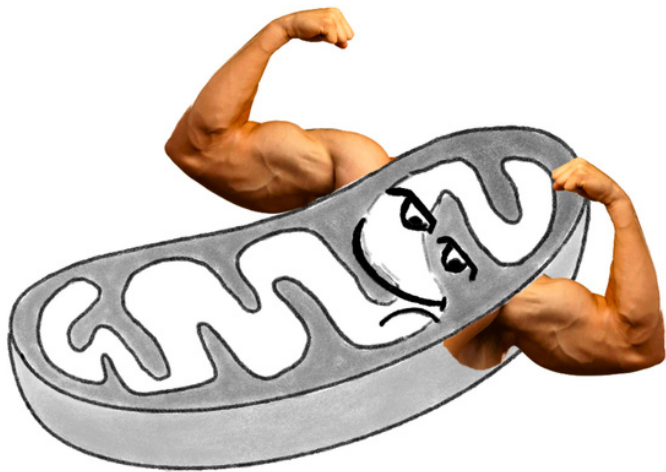


AP CALC

INTERMEDIATE VALUE THEOREM (IVT) REVIEW



What does IVT say?

If a function is **continuous** on an interval, it must pass through **every** **y-level** between its endpoints

CONDITIONS

→ conditions must be met for IVT to work

continuity: function must be continuous along the given interval

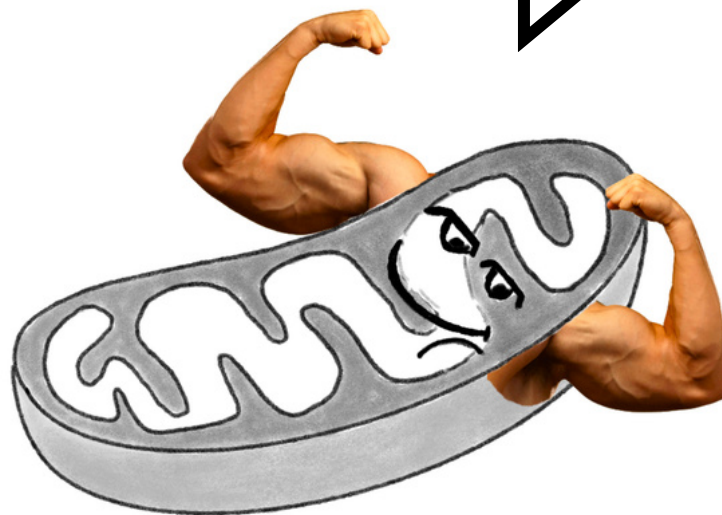
range: target value is in the interval

ANSWER FORMAT

use this structure:

Since f (function) is continuous on $[a/b]$ (interval), & n (target value) lies between $f(a)$ & $f(b)$, the IVT guarantees that there exists at least one $c \in (a, b)$ such that $f(c) = n$

**follow for
more!**



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