





(e) Vednesday, January 24, 2018
(e) Constraint Multiple Law:
(riven lim
$$f(x) = L$$

Ank: $lim(\frac{3}{2}f(x)) = \frac{3}{2}L$
Proof: By product law: $lim(\frac{3}{2}f(x))$
 $rood:$ $rood = (lim \frac{3}{2}) \cdot (lim f(x))$
 $rood = \frac{3}{2} \cdot L$
In general, if c is any constant, then
 $lim(c \cdot f(x)) = c L$
 $roon$
 $lim(c \cdot f(x)) = c \cdot lim(f(x))$
 $(f) Root Law: Given lim f(x) = L$
 $lim \sqrt{f(x)} = \sqrt{L}$
 $rood lim \sqrt{f(x)} = \sqrt{lim f(x)}$

Wednesday, January 24, 2018 8:33 AM

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