Calculus - Chapter 13 - Means Increasing, Recreasing Functions.

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Rdahire mooc: Rolahire min:	$f(x)$ has a relative modificant at x_0 if $f(x_0) \ge f(x_0)$ for in some open interval containing x_0 . From has a relative minimum at x_0 if $f(x_0) \le f(x_0)$ for is some interval containing x_0 .
Rolle's Theorem:	Let $f(\infty)$ be continuous on the closed interval $[a,b]$ and differentiable on the open interval (a,b) . Assume that $f(a) = f(b) = 0$. Then $f'(\infty o) = 0$ for at least one point ∞o in (a,b) .
Lower F Mean:	Let $f(x)$ be continuous on the closed interval $[a,b]$ and differentiable on the open interval (a,b) . Then there is at least one point x_0 in (a,b) for which
	$\frac{f(b)-f(a)}{b-a}=f'(\alpha o).$
Increasing /	A furction f (a) is said take increasing on an interval if u < v implies f(u) > f(v) for all
Decreasing Function:	u and v in the interval. Similarly, f(a) is said to be decreasing on an interval if u <v <="" all="" and="" f(u)="" f(v)="" for="" implies="" in="" interval.<="" th="" the="" u="" v=""></v>

If f'(x) is positive on interval, it is increasing, similarly for decreasing.