

@ If F(x)>0 o	some in	terval Carl	other f is increas	ing or
in that inter			1000	-
-C -N - 1		. 307	[a, b], then fis	The state of the s
decreasing in	on Some	ter val		- 0
0			and the state of t	
erces Find inte	ryal of in	ocyense a	nd the interval of de	coresse .
d: F(x) =	3x4 4x	12x2+	5	-
		c ² 24 x		
		-x-2)		
		-2)(x +		
there is	hree crit	i Cal Point	(0,2,-1)	05
-00	10	1	100	48
12 x		_	1	- 6
(x-2)			1 - 6 1 - 6 1 - 6	- 6
(x +1) _	1	+	+	- 6
- 1 0			1 1 1 1 1 1 1 1	
sight (f) -	+	-	+	(
shap (f)	1 1	K	7	
(Local) min	max	min	mat	ALC:
crease 2- (-1,	0) U (2	, 00)		
decreases-(_o	0,1)0	(0,2)		

00					
BBBBB	© convex Function: (min) © concave functions (max)				
	If f'(x) > 0 in an interval "I", then it's a convex If f'(x) < 0 in an interval "I", then it's a concave				
	$ex_3 = F(x) = x^3 - x^2$ $F'(x) = 3x^2 - 2x$ $= x (3x - 2) = x = 0, x = 2/3$ $F''(x) = 6x - 2 = x = 1/3$				
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