f is differentiable on a	an interval I if f'(a) exists for	all a in I and		
t'(x) = m	flxthj-flxj			
11-20	h			
So, we can think of f'	(x) as a function on I			
tx. Find dx	x^2+3x+2 and	tangents cot	n=3 on	J x = 2
$f'(x) = \lim_{n \to 0}$	F(x+h) - F(x) = 1	(x+h)2+3(x+	h) + 2 - x²	-34-2
_ lim				
line n-so	2x+h+} - [2x+	3		
Ex. 2. Find	f'(x) for x > 0	if f(x) = 5	\	
	n flxth) - flx) = .		1x+h + Jx 1x+h + Jx	
	x+h-x 1	<u>2x</u>		
= 1	$\frac{1}{x+h} + \sqrt{x} = \frac{1}{2\sqrt{h}}$			
Higher order derivativ	/es			
	2 f / P(2) (X)			

