

Using First and Second Derivatives

	4.1 #8	4.1 #11	4.1 #14
$f(x)$	$x^3 - 6x + 1$	$x + 2 \sin x$	xe^{-x^2}
$f'(x)$			
$f''(x)$			
Critical points			
Interval(s) where f is increasing			
Local maximum at $x =$			
Local minimum at $x =$			
Interval(s) where graph is concave up			
Inflection point(s)			
If $-3 \leq x \leq 3$ global maximum = at $x =$			
If $-3 \leq x \leq 3$ global minimum = at $x =$			