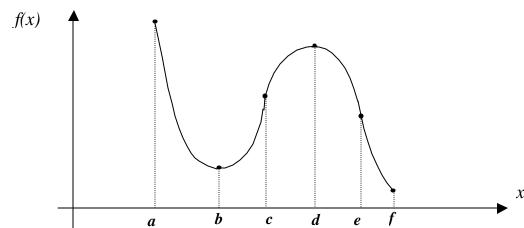
Graphs Review Sheet

Example 1: Consider the graph f(x) shown below:



Relative Max at: x =

; Relative Min at x =_____

Absolute Max at: x =

; Absolute Min at x =_____

Critical points at: x = _____

; f " (x) = 0 at: x =______

f'(x) = 0 at:

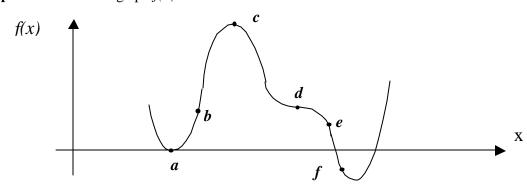
x = _____

f'(x) > 0 at the interval of: _______; f'(x) < 0 at the interval of: ______

f "(x) > 0 at the interval of: ______ ; f "(x) < 0 at the interval of: _____

f " (x) > 0 & f " (x) = 0 at : x =_____ ; f " (x) < 0 & f " (x) = 0 at : x =_____

Example 2: Consider the graph f(x) shown below:



	f is: $(+, 0, -)$	f'is: (+,0,-)	f " $is: (+, 0, -)$
а			
b			
С			
d			
e			
f			

Answers:

Please ask your instructor if you don't agree with an answer, you might be correct

Example 1:

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Relative Max at: x = d
Relative Min at x = b
Absolute Max at: x = a
Absolute Min at x = f
Critical points or: f'(x) = 0 at: x = b, d
f''(x) = 0 (Inflection points) at: x = c, e
f'(x) > 0 (Increasing) at the interval of: (b < x < d)
f'(x) < 0 (Decreasing) at the interval of: (a < x < b) and (d < x < f)
f''(x) > 0 (Concave Up) at the interval of: (a < x < c) and (e < x < f)
f'''(x) < 0 (Concave Down) at the interval of: (c < x < e)
```

Example 2:

	f is: (+,0,-)	f'is: (+,0,-)	f " is : $(+, 0, -)$
а	0	0	+
b	+	+	+
с	+	0	-
d	+	0	0
e	+	-	-
f	-	-	+