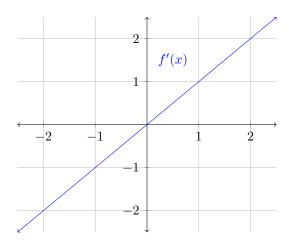
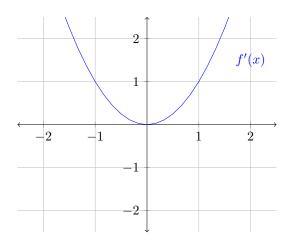
## MA 16010 LESSON 17: GRAPHICAL INTERPRETATION OF DERIVATIVES

So far, we have learned that:

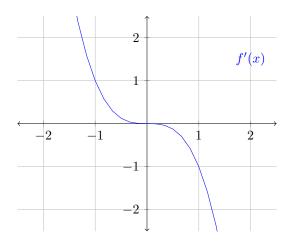
1. Critical Number:	
2. Increasing:	
3. Decreasing:	
4. Relative Max:	
5. Relative Min:	
6. Concave Up:	
7. Concave Down:	
8. Inflection Point:	



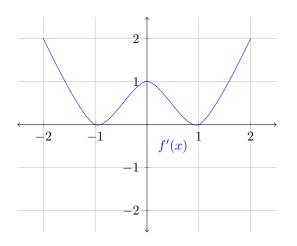
- (a) Critical Number(s):
- (b) Increasing Interval(s):
- (c) Decreasing Interval(s):
- (d) Relative Maximum Occurs:
- (e) Relative Minimum Occurs:
- (f) Concave Up Interval(s):
- (g) Concave Down Interval(s):
- (h) Inflection Point(s) Occurs:



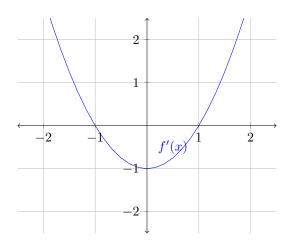
- (a) Critical Number(s):
- (b) Increasing Interval(s):
- (c) Decreasing Interval(s):
- (d) Relative Maximum Occurs:
- (e) Relative Minimum Occurs:
- (f) Concave Up Interval(s):
- (g) Concave Down Interval(s):
- (h) Inflection Point(s) Occurs:



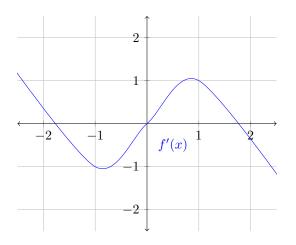
- (a) Critical Number(s):
- (b) Increasing Interval(s):
- (c) Decreasing Interval(s):
- (d) Relative Maximum Occurs:
- (e) Relative Minimum Occurs:
- (f) Concave Up Interval(s):
- (g) Concave Down Interval(s):
- (h) Inflection Point(s) Occurs:



- (a) Critical Number(s):
- (b) Increasing Interval(s):
- (c) Decreasing Interval(s):
- (d) Relative Maximum Occurs:
- (e) Relative Minimum Occurs:
- (f) Concave Up Interval(s):
- (g) Concave Down Interval(s):
- (h) Inflection Point(s) Occurs:



- (a) Critical Number(s):
- (b) Increasing Interval(s):
- (c) Decreasing Interval(s):
- (d) Relative Maximum Occurs:
- (e) Relative Minimum Occurs:
- (f) Concave Up Interval(s):
- (g) Concave Down Interval(s):
- (h) Inflection Point(s) Occurs:



- (a) Critical Number(s):
- (b) Increasing Interval(s):
- (c) Decreasing Interval(s):
- (d) Relative Maximum Occurs:
- (e) Relative Minimum Occurs:
- (f) Concave Up Interval(s):
- (g) Concave Down Interval(s):
- (h) Inflection Point(s) Occurs:

**Summary:** When given the graph of f',

1. Critical Number:	
2. Increasing:	
3. Decreasing:	
4. Relative Max Occurs:	
5. Relative Min Occurs:	
6. Concave Up:	
7. Concave Down:	
8. Inflection Point Occurs:	