AP Calculus BC
Match the function graphs (*f*) with the graphs of their derivatives (*d*).

Name:_____
Period:_____

MATCHING:

A	
B	
C	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
N	
O	

AP Calculus BC
Chapter 3: Given the graph of f', find the graph of f

Given the graph of f', find the following:
      (a). The intervals on which f is increasing
      (b). The intervals on which f is decreasing
      (c). The relative extrema of f
      (d). Where the graph is concave upward
      (e). Where the graph is concave downward
      (f). The $x-$ coordinates of any points of inflection
And sketch the graph of f, where f is continuous.

You may want to draw f' and f'' number lines then indicate intervals using interval notation.
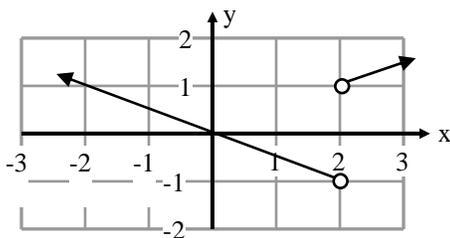
In – class Examples:
  1. The zero of f is 0.
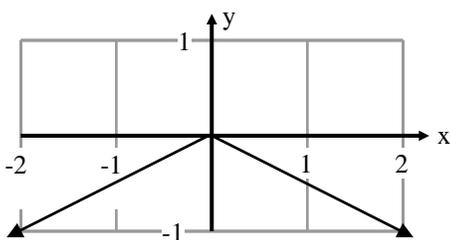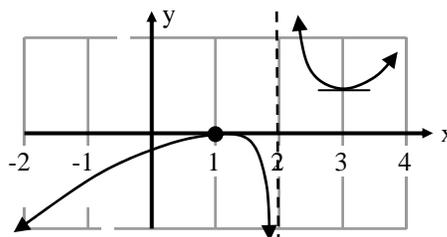

  3. The zeroes of f are $-4, -2, 1, 5$.
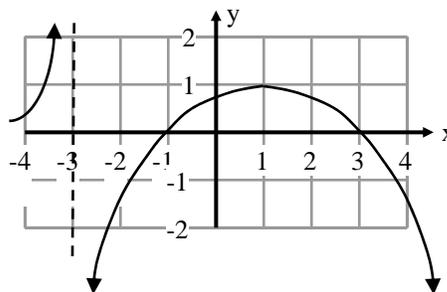
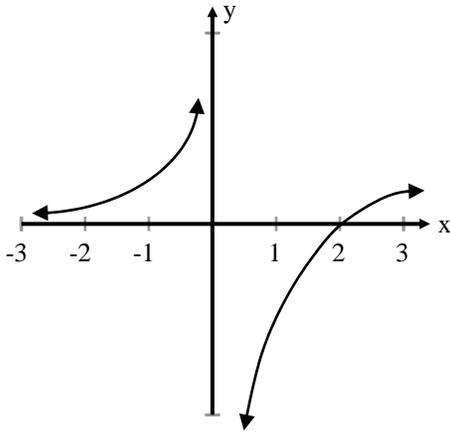
  2. The zeroes of f are $0, 4$.

  4. The zeroes of f are $1, 3$.

Homework Problems:

1. The zeroes of f are 0, 4.
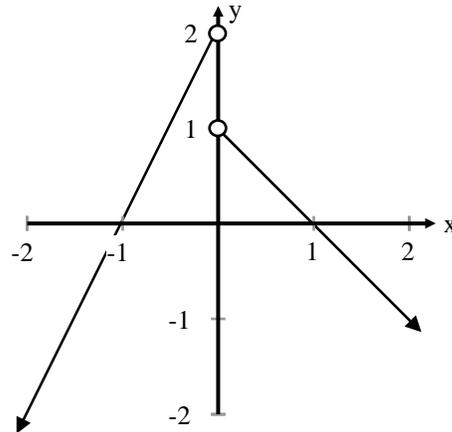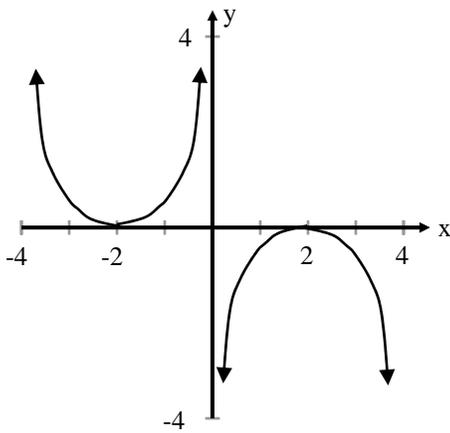
3. The zeroes of f are $-2, 0, 2$.

2. The zeroes of f are $-2, 2$.

4. The zeroes of f are $-1, 1$.