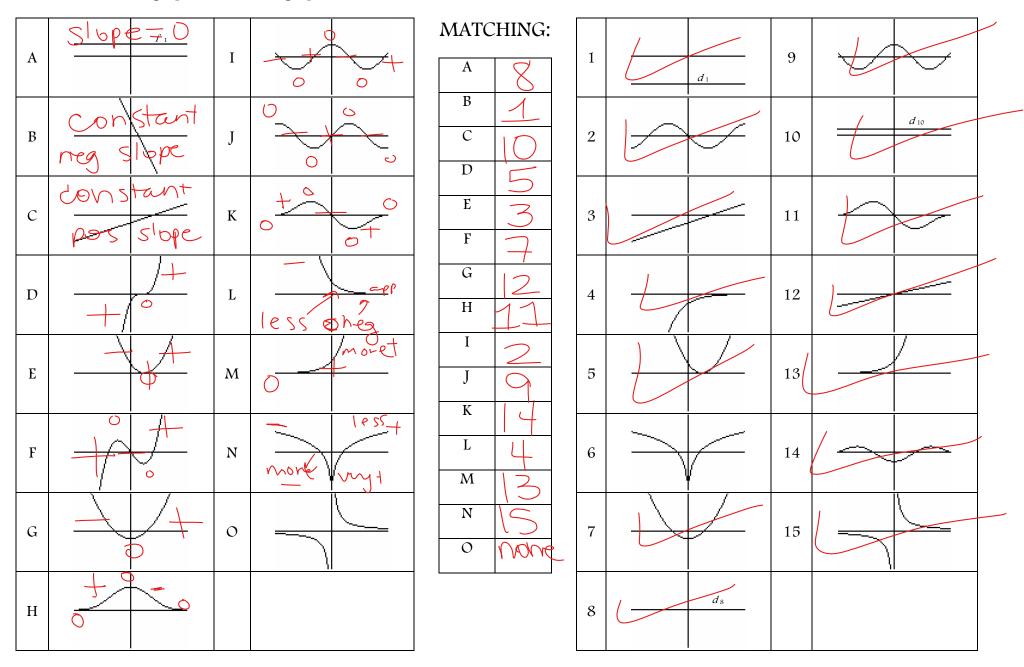
## AP Calculus BC

Match the function graphs (f) with the graphs of their derivatives (d).

Name:\_\_\_\_ Period:\_\_\_



## AP Calculus BC

Chapter 3: Given the graph of f', find the graph of f

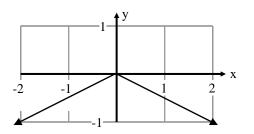
Given the graph of f', find the following:

- (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

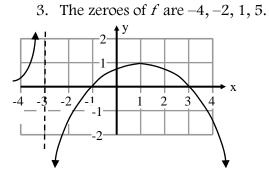
And sketch the graph of f, where f is continuous.

In – class Examples:

1. The zero of f is 0.

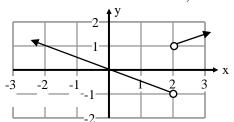


You may want to draw f' and f'' number lines then indicate

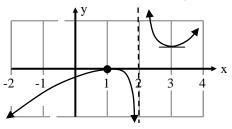


intervals using interval notation.

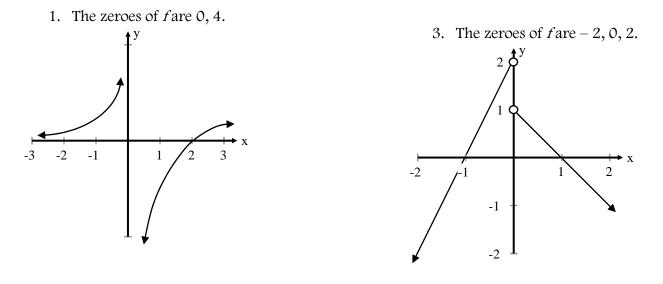
2. The zeroes of f are 0, 4.



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



Homework Problems:



2. The zeroes of f are -2, 2. 4  $f^y$ 

