

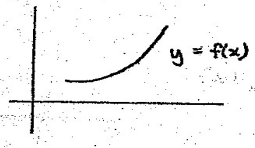
NAME _____
 NUMBER _____

WORKSHEET

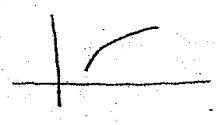
The purpose of this worksheet is to give you practice sketching different combinations of function, first derivative, and second derivative information.

Sketch a graph of a function f that illustrates each set of conditions. The first one is done for you.

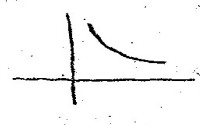
$f > 0$
 $f' > 0$
 $f'' > 0$



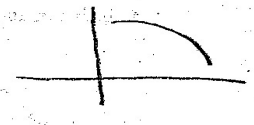
$f > 0$
 $f' > 0$
 $f'' < 0$



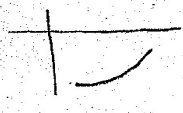
$f > 0$
 $f' < 0$
 $f'' > 0$



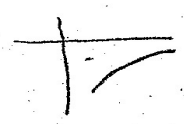
$f > 0$
 $f' < 0$
 $f'' < 0$



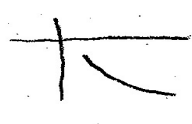
$f < 0$
 $f' > 0$
 $f'' > 0$



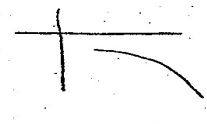
$f < 0$
 $f' > 0$
 $f'' < 0$



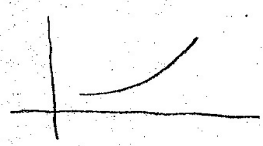
$f < 0$
 $f' < 0$
 $f'' > 0$



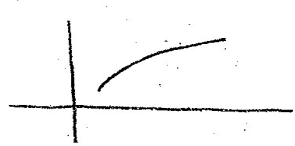
$f < 0$
 $f' < 0$
 $f'' < 0$



$f > 0$
 $f' > 0$
 f' is increasing



$f > 0$
 $f' > 0$
 f' is decreasing



$5 < f < 10$
 $f' < 0$
 f' is decreasing

