Quiz #12   Name: _____Key_____

You must show your work to get full credit.

(1) For the graph
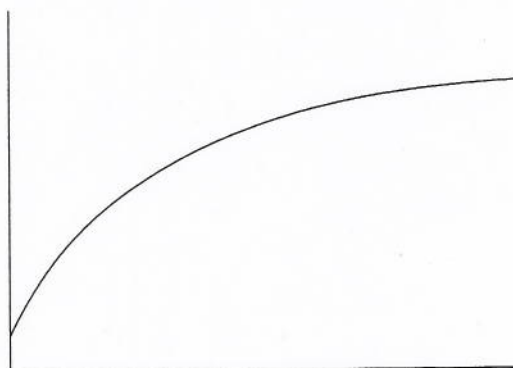
Because f
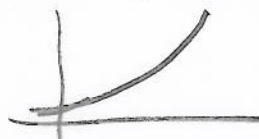Increasing $\rightarrow$ Is f' positive or negative? ___positive_____

As f is $\rightarrow$ Is f'' positive or negative? ___negative_____
concave down

(2) Draw a graph with $f' < 0$ and $f'' > 0$

(3) Draw a graph that is increasing at an increasiing rate.

(4) Draw a graph that is decresing and concave down.

(5) Draw a graph with $f(2) = 3$, $f'(2) = 0$ and $f'' < 0$.

(2,3) concave down
as $f'' < 0$.

2