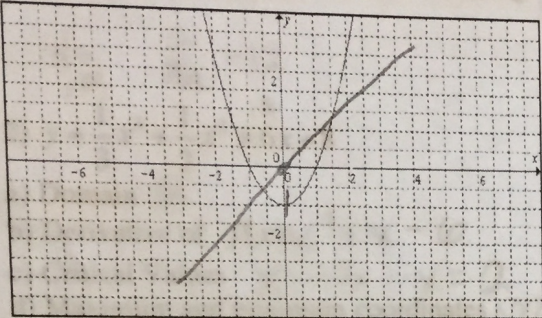


Name Regina Solorio M Group _____ Date 10/11/17

I. Use the graph to find the intervals in which the graph of $f(x)$ is increasing or decreasing and sketch the derivative *derivative \rightarrow 1 degree less*

1)

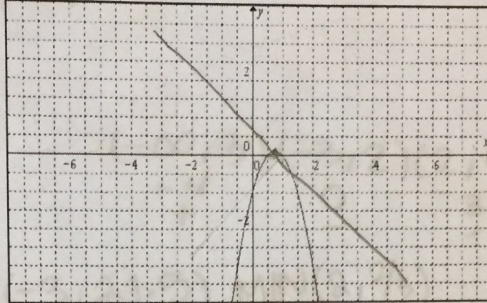


1)

$f(x)$ is increasing: $(0, \infty)$

$f(x)$ is decreasing: $(-\infty, 0)$

2)

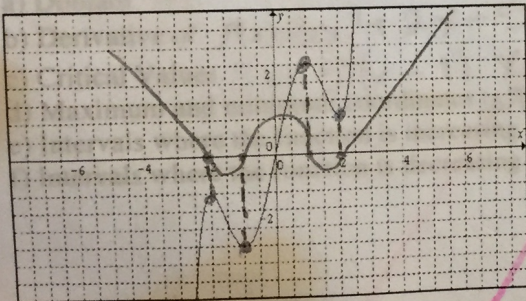


2)

$f(x)$ is increasing: $(-\infty, 0.75)$

$f(x)$ is decreasing: $(0.75, \infty)$

3)

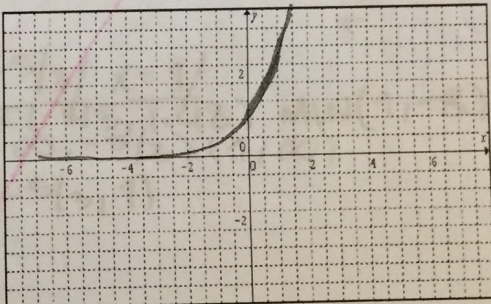


3)

$f(x)$ is increasing: $(-\infty, -2) (1, 2)$

$f(x)$ is decreasing: $(-2, -1) (1, 2)$

4)

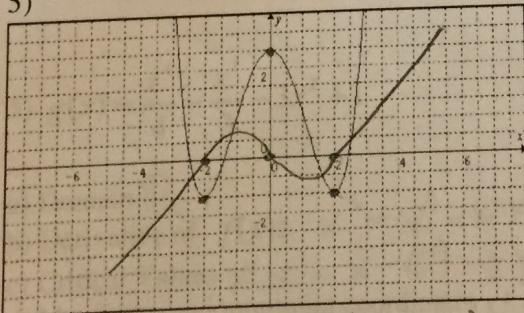


4)

$f(x)$ is increasing: $(-\infty, \infty)$

$f(x)$ is decreasing: _____

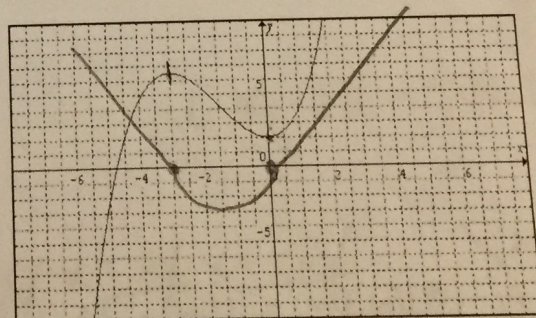
5)



$f(x)$ is increasing: $(-2, 0) (2, \infty)$

$f(x)$ is decreasing: $(-\infty, -2) (0, 2)$

6)



$f(x)$ is increasing: $(-\infty, -3) (0, \infty)$

$f(x)$ is decreasing: $(-3, 0)$