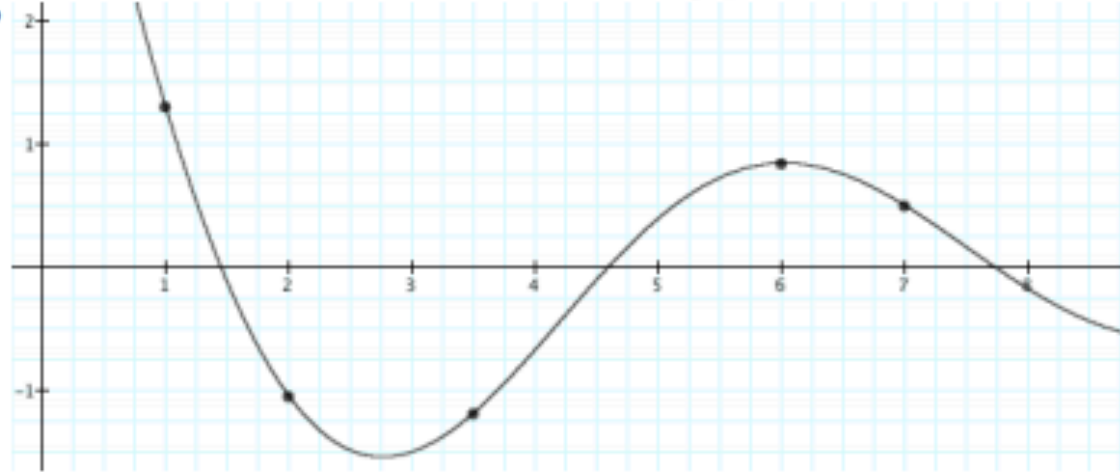


from: http://www.brandeis.edu/registrar/newstudent/docs/placement/calculus_test.pdf

7. The graph of a function $f(x)$ is shown below. At which of the following points is the value of the derivative $f'(x)$ biggest?

- (a) at $x = 1$
- (b) at $x = 2$
- (c) at $x = 3.5$
- (d) at $x = 6$
- (e) at $x = 7$



8. Consider again the function $f(x)$ whose graph is shown in problem 7. At which points is the second derivative $f''(x)$ negative?

- (a) at $x = 2$ and $x = 3.5$
- (b) at $x = 1$, $x = 2$ and $x = 3.5$
- (c) at $x = 6$ only
- (d) at $x = 7$ only
- (e) at $x = 6$ and $x = 7$

From: <http://www.math.cornell.edu/~GoodQuestions/JittMapleTA.pdf>

When we write $\lim_{x \rightarrow a} f(x) = \infty$ this means that the limit exists and is a really big number.

- a.) True
- b.) False