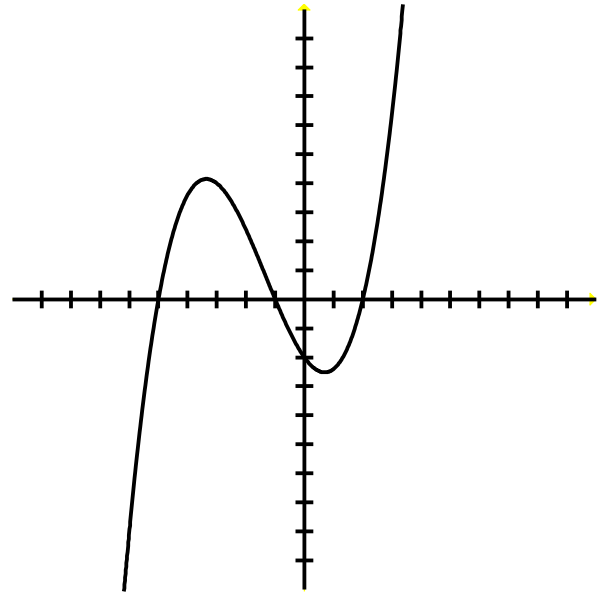


- 1) Given the graph to the right, determine the intervals on which the derivative is positive.

$$(-\infty, -3.4), (0.8, \infty)$$

...or something close to that, I guesstimated those values.



- 2) Given the graph to the right, determine the intervals on which the derivative is negative.

$$(-3.4, 0.8)$$

...or something close to that, I guesstimated those values.

- 2) Find the limit below.

$$\lim_{x \rightarrow -4} \frac{x+4}{x^2+5x+4} = \lim_{x \rightarrow -4} \frac{x+4}{(x+1)(x+4)} = \lim_{x \rightarrow -4} \frac{1}{x+1} = \frac{1}{-4+1} = -\frac{1}{3}$$

- 2) Find the limit below.

$$\lim_{x \rightarrow -4^+} \frac{1}{x+4} = \infty$$