Name: _____ **Section**: _____

Clear your desk of everything excepts pens, pencils and erasers. If you have a question raise your hand and I will come to you.

1. (2 points) **Multiple Choice. No work needed. No partial credit available.** What is the following limit?

$$\lim_{x \to 2} \frac{x^2 - 4}{x - 2}$$

   A. 0

   B. ∞

   C. 4

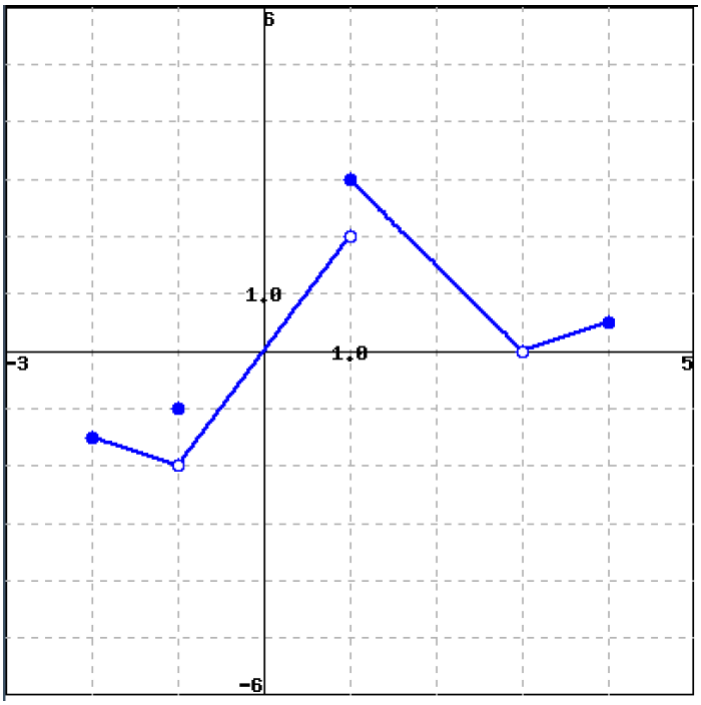
   D. This limit does not exist.

2. (1 point) **Fill-in-the-Blank. No work needed. No partial credit available.** The average rate of change of the function $f(x) = 300 + \cos x$ over the interval $[0, \frac{\pi}{2}]$ is _____.

Extra Work Space.

Continue on to back side

3. (2 points) Using the graph of the function $F(x)$ below, find the following limits. You do not need to show your work. "Does not exist" is, if true, an acceptable answer.



$\lim_{x \to 1^+} F(x) =$ $\lim_{x \to -1} F(x) =$

$\lim_{x \to 1} F(x) =$ $F(1) =$