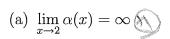


TMATH 124 MW: Quiz 2

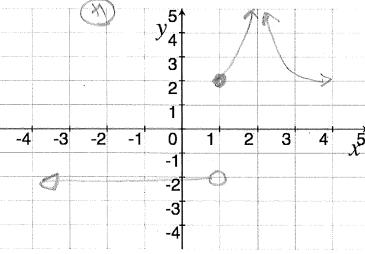
Show all your work (numerically, algebraically, or geometrically) for each and simplify. No credit is given without supporting work.

- 1. [2] ($\S 2.5 \# 50$) TRUE/FALSE: Circle T in each of the following cases if the statement is always true. Otherwise, circle F. Let f be a function.
 - T (F) If f is continuous, f(0) = -5, and f(4) = 4, then $-5 \le f(2) \le 4$.
 - T If f is continuous, f(0) = -5, and f(4) = 4, then f has a root between x = 0 and x = 4.
- 2. [3] (Con't Wks #6) Sketch a graph of a function α that satisfies all of the following:

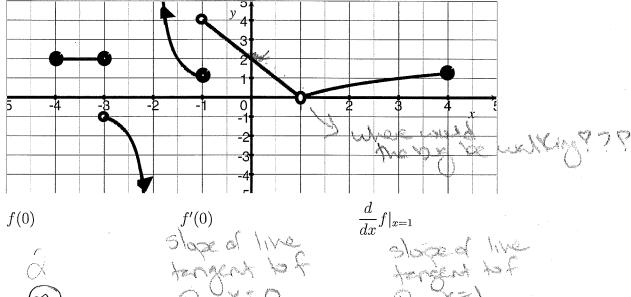


(b) α is not continuous at x = 1





3. [3] (Lecture 1/13) For the function f whose graph is given, estimate the value of each quantity, if it exists. Note there are solid dots at (-3, 2), (-1, 1), and (4, 1.2).



trul gestur?

note ... slope of -1 +,5

412 WebHW4 #10) Find:

Nother (1.5)

 $\lim_{x \to \infty} \frac{5x - 9}{2x + 2}$

god it (45