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so many fake sites. this is the first one which worked! Many thanks

Math 1B: Single Variable Calculus I: Lesson 2 Problems

Problems are worth 20 points each.

- (1) Compute $\lim_{x \rightarrow 2} \frac{x^2 - 4}{x - 2}$ by constructing a table of suitable values using a calculator.
- (2) Compute $\lim_{x \rightarrow 0} \sin x \cos \frac{1}{x}$ by constructing a table of suitable values using a calculator. (Use radians.)
- (3) Compute $\lim_{x \rightarrow 0} \frac{1 - \sin x - \cos x}{x}$ by constructing a table of suitable values using a calculator.
- (4) Compute $\lim_{x \rightarrow 0} \frac{\sin x}{x}$ and $\lim_{x \rightarrow 0} \frac{\cos x}{x}$ by constructing two tables of suitable values using a calculator.
- (5) Sketch a graph of a function $y = f(x)$ with domain $[0, 6]$ for which the following six limits are correct:
$$\lim_{x \rightarrow 0} f(x) = \infty \quad \lim_{x \rightarrow 3} f(x) = -\infty \quad \lim_{x \rightarrow 6} f(x) = 0$$
$$\lim_{x \rightarrow 0} f(x) = 1 \quad \lim_{x \rightarrow 3} f(x) = -1 \quad \text{and} \quad f(5) = 2.$$
- (6) (Bonus question: worth 80 points. Total points for assignment not to exceed 100.)
Compute $\lim_{x \rightarrow 0} \sin x^{1/2}$ and $\lim_{x \rightarrow 0} \sin x^{2/3}$ by constructing two tables of suitable values using a calculator. (Careful: The expression is $|\sin x|^{2/3}$, not $|\sin x|^{2/3}$.)

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