

Solutions: Sample Problems A for Exam 1. Calculus 1, Math 150, Fall 2023

- Syllabus for Exam 1: Sections 1.3-1.6, 2.1-2.7.
-

1. Compute the limit if it exists,

(a) $\lim_{x \rightarrow 0} \frac{(5+x)^2 - 25}{x}$

Since $x = 0$ is not in the domain of $\frac{(5+x)^2 - 25}{x}$, we factor using that $x \neq 0$ when taking the limit.

$$= \lim_{x \rightarrow 0} \frac{5^2 + 2(5x) + x^2 - 25}{x} = \lim_{x \rightarrow 0} \frac{10x + x^2}{x} = \lim_{x \rightarrow 0} \cancel{x}(10 + x) = \lim_{x \rightarrow 0} (10 + x) = 10$$

(b) $\lim_{x \rightarrow 1} \frac{1-x}{1-\sqrt{x}}$

Since $x = 1$ is not in the domain of $\frac{1-x}{1-\sqrt{x}}$, we rationalize and cancel $(1-x)$ using that $x \neq 1$ when taking the limit.

$$\lim_{x \rightarrow 1} \frac{1-x}{1-\sqrt{x}} \left(\frac{1+\sqrt{x}}{1+\sqrt{x}} \right) = \lim_{x \rightarrow 1} \frac{\cancel{(1-x)}(1+\sqrt{x})}{\cancel{(1-x)}} = 2$$

(c) $\lim_{x \rightarrow 0} \frac{\sin 7x}{4x}$

For this, we use $\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1$ (was done by geometric argument and Squeeze Theorem).

$$\begin{aligned} \lim_{x \rightarrow 0} \frac{\sin 7x}{4x} &= \lim_{x \rightarrow 0} \left(\frac{7}{4} \right) \frac{\sin 7x}{7x} = \lim_{x \rightarrow 0} \left(\frac{7}{4} \right) \frac{\sin 7x}{7x} \\ &= \frac{7}{4} \lim_{x \rightarrow 0} \frac{\sin 7x}{7x} = \frac{7}{4} \end{aligned}$$

2. Find all the vertical and horizontal asymptotes of the function $g(x) = \frac{x^2 - 5x + 6}{(x-2)^2}$

H.A. are limits at infinity.

$$\lim_{x \rightarrow \infty} g(x) = \lim_{x \rightarrow \infty} \frac{x^2}{x^2} = 1$$

where we used dominating terms are the leading terms in the rational function. Similarly $\lim_{x \rightarrow -\infty} g(x) = 1$. So the only horizontal asymptote is $\boxed{y = 1}$.

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