

Infinity + Limits Quiz

1. Determine the following infinite limits

$$\lim_{x \rightarrow 2} \frac{1}{\sqrt{x(x-2)}}$$

2. Suppose that g satisfies the inequality

$$3 - \frac{1}{x^2} \leq g(x) \leq 3 + \frac{1}{x^2},$$

for all nonzero values of x . Evaluate (Find) $\lim_{x \rightarrow \infty} g(x)$ and $\lim_{x \rightarrow -\infty} g(x)$.