Name: 

Show all work, clearly and legibly, to receive full credit. Correct spelling, organization of your solution, and proper use of mathematical notation all count. You may use a calculator, but no notes, books, or other resources. Good luck!

1.) (5 pts.) Evaluate the limit \( \lim_{{x \to 0}} \frac{3}{x^3} \).

2.) (5 pts.) Use L'Hôpital's rule to evaluate the limit \( \lim_{{x \to \infty}} \frac{5e^x}{7x} \). Recall that part of using L'Hôpital's rule is verifying that this is a situation in which L'Hôpital's rule is permissible.