Name: _____ **Score:** _____

1. Evaluate the indicated limit, if it exists

$$\lim_{x \to 1} \frac{x^3 - 1}{x^2 + 2x - 3}$$

2. Explain why the function $f(x) = \frac{x}{x-1}$ is discontinuous at point $x = 1$ by indicating which of the three conditions in Definition 4.1 [1] are not met.

—— **Good luck!** ——

[1] A function f is continuous at $x = a$ when (...)