Your Name:

Duration of the Quiz is 20 minutes. There are four problems, worth 20 points. Show all your work for full credit. Books, notes etc. are prohibited. Calculators are NOT permitted.

1. Compute the limit.

$$\lim_{x \to -1} 2x^3 - 3x^2 + 5x - 1$$

2. Compute the limit.

$$\lim_{x \to -1} \frac{\sqrt{x+5} - 2}{x + 1}$$

3. Compute the limit.

$$\lim_{x \to 0} \frac{\sin 2x}{\tan 3x}$$

4. Compute the limit using the Squeeze Theorem.

$$\lim_{x \to 0} x^2 \sin^2\left(\frac{2\pi}{x}\right)$$