

Name: \_\_\_\_\_

1. Find the limit, using L'Hôpital's rule if appropriate:

$$\lim_{x \rightarrow 2} \frac{x^2 + x - 6}{5x - 10}$$

2. Evaluate the limit at infinity, using L'Hôpital's rule if appropriate:

$$\lim_{x \rightarrow \infty} \frac{15x}{e^x}$$

Name: \_\_\_\_\_

1. Find the limit, using L'Hôpital's rule if appropriate:

$$\lim_{x \rightarrow 1} \frac{x^2 + x - 2}{4x^2 - x - 3}$$

2. Evaluate the limit at infinity, using L'Hôpital's rule if appropriate:

$$\lim_{x \rightarrow \infty} \frac{e^x}{10x}$$

Name: \_\_\_\_\_

1. Find the limit, using L'Hôpital's rule if appropriate:

$$\lim_{x \rightarrow 0} \frac{\sin(x) + 2x}{x^2 + 4x}$$

2. Evaluate the limit at infinity, using L'Hôpital's rule if appropriate:

$$\lim_{x \rightarrow \infty} \frac{2e^x + 2}{e^x - 4}$$

Name: \_\_\_\_\_

1. Find the limit, using L'Hôpital's rule if appropriate:

$$\lim_{x \rightarrow 0} \frac{\cos(x) + x - 1}{x^2 + 3x}$$

2. Evaluate the limit at infinity, using L'Hôpital's rule if appropriate:

$$\lim_{x \rightarrow \infty} \frac{12e^x - 37}{e^x + 1000}$$