

Name \_\_\_\_\_ Quiz 3

1) Find the following limits.

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

$$\lim_{x \rightarrow 3^-} \frac{6x - 2x^2}{x - 3}$$

$$\lim_{x \rightarrow \frac{\pi}{2}} \frac{x + \cos(x)}{\sin(x)}$$

$$\lim_{x \rightarrow \infty} \frac{\sqrt{5x^6 + x^4} - 2x^2}{2x^3 + 1}$$

$$\lim_{x \rightarrow \infty} \frac{\sqrt{5x^6 + x^4} - 2x^3}{2x^3 + 1}$$