Name: _____   Date: _____

Learning Goal 4.2	The Mean Value Theorem and L'Hospital's Rule

More Questions

1. Evaluate.

a. $\displaystyle\lim_{x\to\pi^-} \frac{\sin x}{1 - \cos x}$

b. $\displaystyle\lim_{x\to 3} \frac{x^2 - 9}{x - 3}$

c. $\displaystyle\lim_{x\to\infty} \frac{1 - x}{2x}$

d. $\displaystyle\lim_{x\to\infty} \frac{1 - x^2}{2x}$

e. $\displaystyle\lim_{x\to\pi} \frac{x^2 - \pi^2}{\sin x}$

f. $\displaystyle\lim_{x\to\infty} \frac{2x^2 - 3x + 7}{x^2 + 47x + 1}$

g. $\displaystyle\lim_{x\to 0} \frac{\sec x - 1}{\sin x}$

h. $\displaystyle\lim_{x\to 0^+} \frac{1/x^2}{\ln x}$