

Pledge:

9/14/2006
Dr. Lunsford

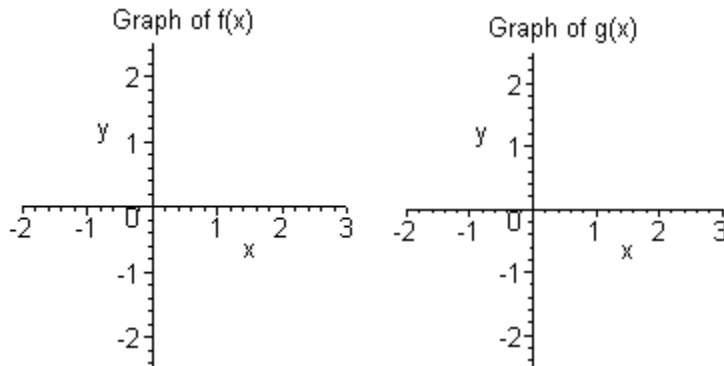
MATH261 Calculus I
Quiz 4

Name: _____
(20 Points Total)

I. Use the graphs of the functions f and g to find the indicated limits. For each limit you must show at least one intermediate step for full credit. (2 points each, 4 points total)

1. $\lim_{x \rightarrow 2} x^3 f(x)$

2. $\lim_{x \rightarrow 1} \frac{f(x)}{g(x)}$



II. Evaluate the following limits. For each limit you must show at least one intermediate step for full credit. (4 points each, 16 points total)

1. $\lim_{t \rightarrow 1} t^2 + 1^3 - t + 3^2$

2. $\lim_{w \rightarrow 1/2} \frac{4w^2 - 1}{1 - 2w}$

3. $\lim_{x \rightarrow 5} \frac{x - 5}{\sqrt{x + 4} - 3}$

4. $\lim_{h \rightarrow 0} \frac{(4 + h)^{-1} - 4^{-1}}{h}$