9/17/2001 MA303 Calculus I Name:_____
Dr. Lunsford Quiz 5 (20 Points Total)

I. Quick Limits. Find the indicated limits. Clearly indicate your answers. You are not required to show any work on these problems. (2 points each – 10 total)

(a) $\lim_{x\to 2^-} \frac{x+1}{x-2}$

(b) $\lim_{x\to\infty} \frac{2-4x-3x^2}{4x^2+11x+7}$

(c) $\lim_{x\to -\infty} \frac{3-x}{x^2+1}$

(d) $\lim_{x\to -\infty} (7x^2-11x^4+14x+21)$

(e) $\lim_{x\to -\infty} \frac{x^4+7x+8}{x^3-3x+12}$

II. Find the indicated limits. If a limit does not exist indicate so by writing DNE for your answer. You must show some work to justify your answer. Clearly indicate your answers. (4 each)

(a) $\lim_{\theta\to \frac{\pi}{2}^+} \frac{\theta-\pi}{\cos\theta}$

(b) $\lim_{t\to -\infty} \frac{-3t}{\sqrt{t^2+t+5}}$