9/18/2000 MA303 Calculus I Name:_____
Dr. Lunsford Quiz 4 (20 Points Total)

I. 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) $\lim_{x \to 2^+} \sqrt{4 - x^2}$

(b) $\lim_{t \to 0} \frac{\tan^2 t}{t}$

(c) $\lim_{w \to p^+} \frac{w}{\sin w}$

(d) $\lim_{x \to 2^-} \frac{x - 2}{x^2 - 4x + 4}$

(e) $\lim_{x \to 1} f(x)$ where $f(x) = \begin{cases} x^2 + 2, & x \geq 1 \\ x - 2, & x < 1 \end{cases}$