MA 125-06 §2.2 – 2.3	**Quiz #2**	*score*	**Name:** _____ **8 September 2000**

1. Let $f(x) = (1+x)^{(2/x)}$. Estimate the value of $\lim_{x\to 0} f(x)$ by checking values of $f(x)$ using x-values close to, and on both sides of, the limit point. Try to ensure that your estimate is correct to 3 decimal places. *(7 points)*

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2. Let $f(x) = [\![x]\!] - x + 1$. Determine if $\lim_{x\to 2} f(x)$ exists by checking the left- and right-handed limits there. Explain. *(7 points)*

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3. Evaluate the following limit if it exists. Show all the details in your calculation. *(7 points)*

$$\lim_{x\to 2} \frac{2-x}{\sqrt{x}-\sqrt{2}}$$