

**“QUIZ” for Monday, Sept. 8, 2008**

**NAME:** (print!) \_\_\_\_\_ **Section:** \_\_\_\_\_

**E-MAIL ADDRESS:** (print!) \_\_\_\_\_

1. : (a) Draw the function

$$f(x) = \begin{cases} x + 2, & \text{if } x < 1; \\ 7, & \text{if } x = 1; \\ 2x + 2, & \text{if } 1 < x < 2; \\ 5, & \text{if } x = 2; \\ 3x - 2, & \text{if } x > 2. \end{cases}$$

(b) What are:

$$\lim_{x \rightarrow 1^-} f(x) =$$

$$\lim_{x \rightarrow 1^+} f(x) =$$

$$\lim_{x \rightarrow 1} f(x) =$$

$$\lim_{x \rightarrow 2^-} f(x) =$$

$$\lim_{x \rightarrow 2^+} f(x) =$$

$$\lim_{x \rightarrow 2} f(x) =$$