**Quiz 2      Calculus 1      9/11/2002**

Each problem is worth 5 points.  Show complete justification for full credit.

1. Given the graph shown for f(x):
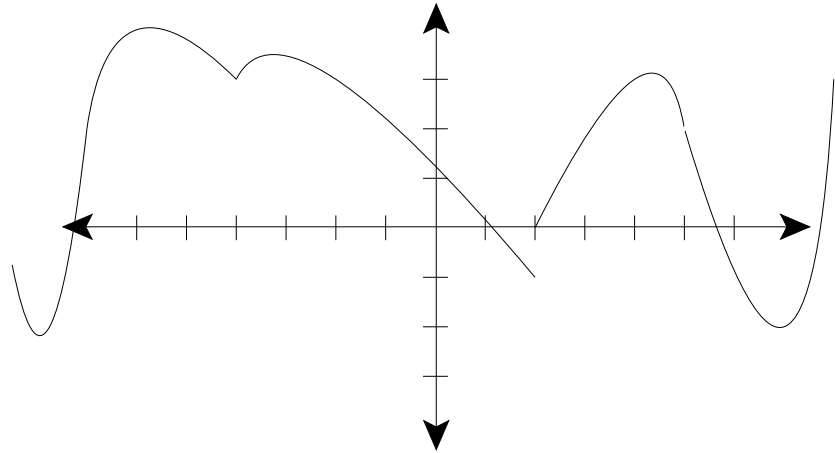
(a) What is $\lim\limits_{x \to 2^-} f(x)$ ?

(b) What is $\lim\limits_{x \to 2^+} f(x)$ ?

(c) What is $\lim\limits_{x \to 2} f(x)$ ?

(d) What is $f(2)$?

(e) What is f(5)?



2. Find $\lim\limits_{x \to 0} \dfrac{(x-5)^2 - 25}{x}$ .