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

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

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

   (c) What is $\lim_{x \to 2^-} f(x)$?

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

   (e) What is $f(5)$?

2. Find $\lim_{x \to 0} \frac{(x - 5)^2 - 25}{x}$.