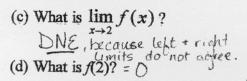
Each problem is worth 5 points. Show complete justification for full credit.

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

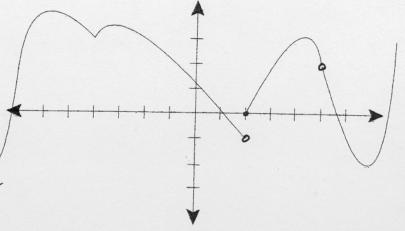
5 +1

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



(e) What is f(5)?

NE Excellent



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

$$= \lim_{x \to 0} \frac{x^2 - 10x + 75 - 25}{x}$$

$$= \lim_{x \to 0} \frac{x^2 - 10x}{x}$$

$$= \lim_{x \to 0} \frac{x^2 - 10x}{x}$$