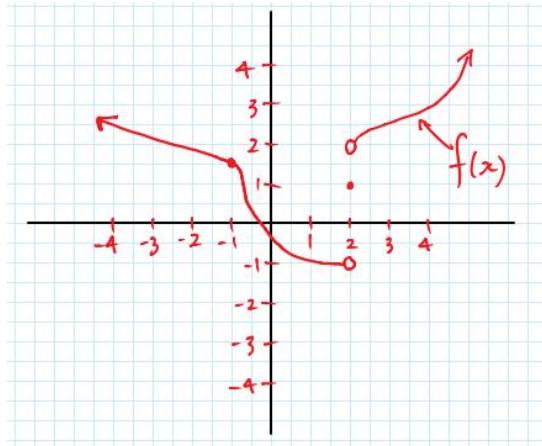


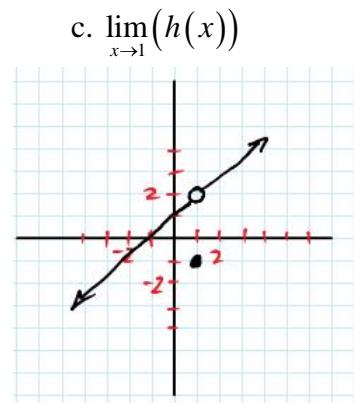
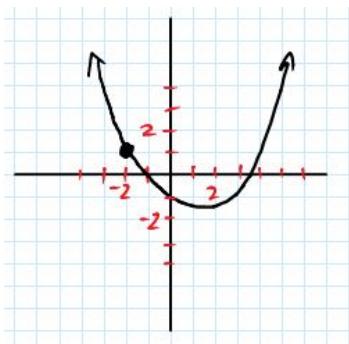
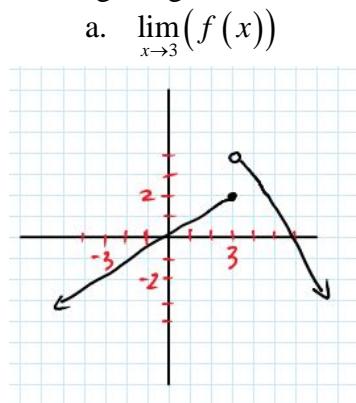
1.4 The Limit of a Function

1. Given the sketch of the graph of $f(x)$, determine the following:

$$\text{a. } \lim_{x \rightarrow 1^-}(f(x)) \quad \text{b. } \lim_{x \rightarrow 2^+}(f(x)) \quad \text{c. } f(2) \quad \text{d. } \lim_{x \rightarrow 2^-}(f(x))$$



2. Using the given sketches, determine the limit (if it exists):



3. Calculate the following limits:

$$\text{a. } \lim_{x \rightarrow 1}(x^2 - 2x - 5)$$

$$\text{b. } \lim_{t \rightarrow 2}\left(\frac{3t-6}{5t+1}\right)$$

$$\text{c. } \lim_{x \rightarrow 4}(\sqrt{2x+1})$$

Answers to Selected Problems

1. d) -1 2. ASK for the answers 3. b) 0