

SELF: F-L1a

Mock Assessment #1

Name:

Evaluate each limit. Show all work. If a limit does not exist, show why.

1. $\lim_{x \rightarrow -1} \frac{x^2 + 5x + 4}{x + 1}$

2. $\lim_{x \rightarrow 2} \frac{x - 2}{x^2 - x - 2}$

3. $\lim_{x \rightarrow -1} \frac{x^2 - 2x}{x}$

4. $\lim_{x \rightarrow \frac{\pi}{3}} \cos(2x)$

SELF: F-L1c

5. $\lim_{x \rightarrow 3} \frac{\sqrt{x+1} - 2}{3-x}$

SELF: F-L2a

Use the graph of $f(x)$ shown here for #5-9.

Tell whether each is true or false. If false, explain why.

6. $\lim_{x \rightarrow a} f(x) = \lim_{x \rightarrow b} f(x)$

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

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

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

10. $\lim_{x \rightarrow a} f(x)$ does not exist

