$\mathbf{nitions}$
Ì

o Community of a function	0	Continuity	of a	function
---------------------------	---	------------	------	----------

- \circ Which functions are continuous
- $\circ\,$ The Intermediate Value Theorem
- \circ Limit
- $\circ\,$ Right- and left-hand limits
- o How a limit may not exist
- What a limit at infinity is

Understand

1. Suppose that $f(x) = \sin(x^2 + 3)$. Find f(1) and f(2). What do these in conjunction with the Intermediate Value Theorem tell you?

2. Use a graph to estimate $\lim_{x\to 0} \frac{1-\cos(x)}{x}$.

 $Random\ other\ question:$ What error is made in the example of continuous functions given?