Limits

- 1. Let $f(x) = \sin(x)/x$. We wish to calculate $\lim_{x\to 0} f(x)$.
 - (a) Complete the following table. Be sure your calculator is in radians.

x	f(x)
0.1	
0.01	
0.001	
0.0001	
0.00001	

- (b) Based on the above tables, what do you conclude about $\lim_{x\to 3} f(x)$?
- 2. Let $g(x) = \sin(1/x)$. We wish to calculate $\lim_{x\to 0} g(x)$.
 - (a) Complete the following table. Again, be certain you're using radians.

x	g(x)
0.1	
0.01	
0.001	
0.0001	
0.00001	

(b) Based on the above table, what do you conclude about $\lim_{x\to 0} g(x)$?