

Math 250 Chapter 1 Definitions To Know  
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(1-4) State the definitions

1.  $\lim_{x \rightarrow c} f(x) = L$

2.  $f(x)$  is continuous at  $x = c$ .

3. The slope of the tangent line to  $y = f(x)$  at  $x = c$ .

4.  $\lim_{x \rightarrow c} f(x) = \infty$

(5-7) Give the exact value of the limits:

5.  $\lim_{x \rightarrow 0} \frac{\sin(x)}{x} =$

6.  $\lim_{x \rightarrow \pi/2} \frac{\sin(x)}{x} =$

7.  $\lim_{x \rightarrow 0} \frac{1 - \cos(x)}{x} =$