

## Evaluating Limits

Evaluate each limit.

1) 
$$\lim_{x \rightarrow 0} \frac{1 - \sin\left(\frac{\pi}{2} - x\right)}{x}$$

2) 
$$\lim_{x \rightarrow 0} \frac{\cos\left(\frac{\pi}{2} - x\right)}{x}$$

3) 
$$\lim_{x \rightarrow 0} \frac{\tan(x)}{3x}$$

4) 
$$\lim_{x \rightarrow 0} \frac{\sin(x)}{\sin(4x)}$$

5) 
$$\lim_{x \rightarrow 0} \frac{1 - \cos(2x)}{4x}$$

6) 
$$\lim_{x \rightarrow 0} \frac{\sin^2(2x)}{x^2}$$