PRINT Your Name:_____

Quiz – February 26, 2004

Find

$$\lim_{x \to 0} \frac{2x - \sin x}{x}.$$

Answer: The limit of the top is zero. The limit of the bottom is zero. We may use L'hoptal's rule. The original limit is equal to

$$\lim_{x \to 0} \frac{2 - \cos x}{1} = 2 - 1 = \boxed{1}.$$