

**26.**  $\lim_{x \rightarrow \infty} \frac{\cos x}{x} = 0$  by the squeeze theorem, since

$$-\frac{1}{x} \leq \frac{\cos x}{x} \leq \frac{1}{x} \quad \text{for all } x > 0$$

and  $\lim_{x \rightarrow \infty} (-1/x) = \lim_{x \rightarrow \infty} (1/x) = 0$ .