

- 75.** Since $2 - x^2 \leq g(x) \leq 2 \cos x$ for all x , and since $\lim_{x \rightarrow 0} (2 - x^2) = \lim_{x \rightarrow 0} 2 \cos x = 2$, we have $\lim_{x \rightarrow 0} g(x) = 2$ by the squeeze theorem.