



Calculus 1 Workbook

Squeeze Theorem

krista king
MATH

SQUEEZE THEOREM

- 1. Use the Squeeze Theorem to evaluate the limit.

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

- 2. Use the Squeeze Theorem to evaluate the limit.

$$\lim_{x \rightarrow \infty} \frac{3 \sin x}{4x}$$

- 3. Use the Squeeze Theorem to evaluate the limit.

$$\lim_{x \rightarrow 0} \left(x^2 \cos \left(\frac{1}{x^2} \right) + 1 \right)$$

- 4. Use the Squeeze Theorem to evaluate the limit.

$$\lim_{x \rightarrow \infty} \frac{e^{-x}}{x}$$

- 5. Use the Squeeze Theorem to evaluate the limit.



$$\lim_{x \rightarrow \infty} \frac{x^2 + x \sin \sqrt{x}}{4x^2 + 7}$$

■ 6. Use the Squeeze Theorem to evaluate the limit.

$$\lim_{x \rightarrow \infty} \frac{5x - \sin x}{\cos x + 2x}$$



