Calculus 1 Workbook

Squeeze Theorem

krista king
MATH

SQUEEZE THEOREM

1. Use the Squeeze Theorem to evaluate the limit.

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

2. Use the Squeeze Theorem to evaluate the limit.

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

3. Use the Squeeze Theorem to evaluate the limit.

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

4. Use the Squeeze Theorem to evaluate the limit.

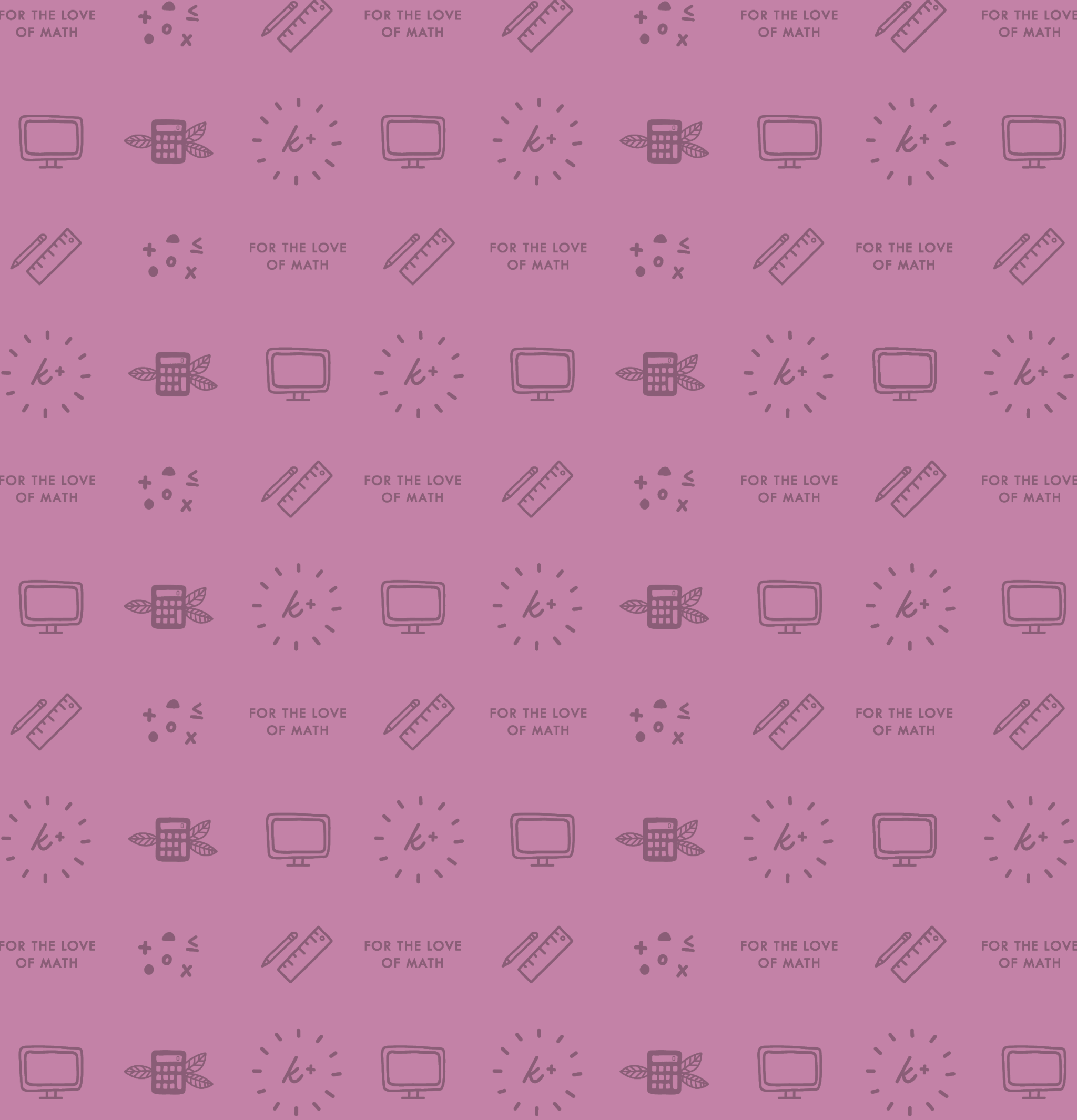
$$\lim_{x\to\infty}\frac{e^{-x}}{x}$$

5. Use the Squeeze Theorem to evaluate the limit.

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

6. Use the Squeeze Theorem to evaluate the limit.

$$\lim_{x\to\infty} \frac{\sin x}{x}$$



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