## Squeeze Theorem Activity

This activity is intended to help students understand the Squeeze Theorem."

**Directions:** This worksheet is to be used in conjunction with the Gradarius Assignment titled "Squeeze Theorem Activity".

First, we start by presenting the Squeeze Theorem...

**Theorem 1** (Squeeze Theorem). Suppose that

$$g(x) \le f(x) \le h(x)$$

for all x close to a but not necessarily equal to a. If

$$\lim_{x \to a} g(x) = L = \lim_{x \to a} h(x),$$

then  $\lim_{x \to a} f(x) = L$ .

1 State the conditions of the Squeeze Theorem for problem 1.

2	State the conditions of the Squeeze Theorem for problem 2.
3	State the conditions of the Squeeze Theorem for problem 3.
4	Explanin why there are extra steps in problem 3 that we did not need in problem 2.