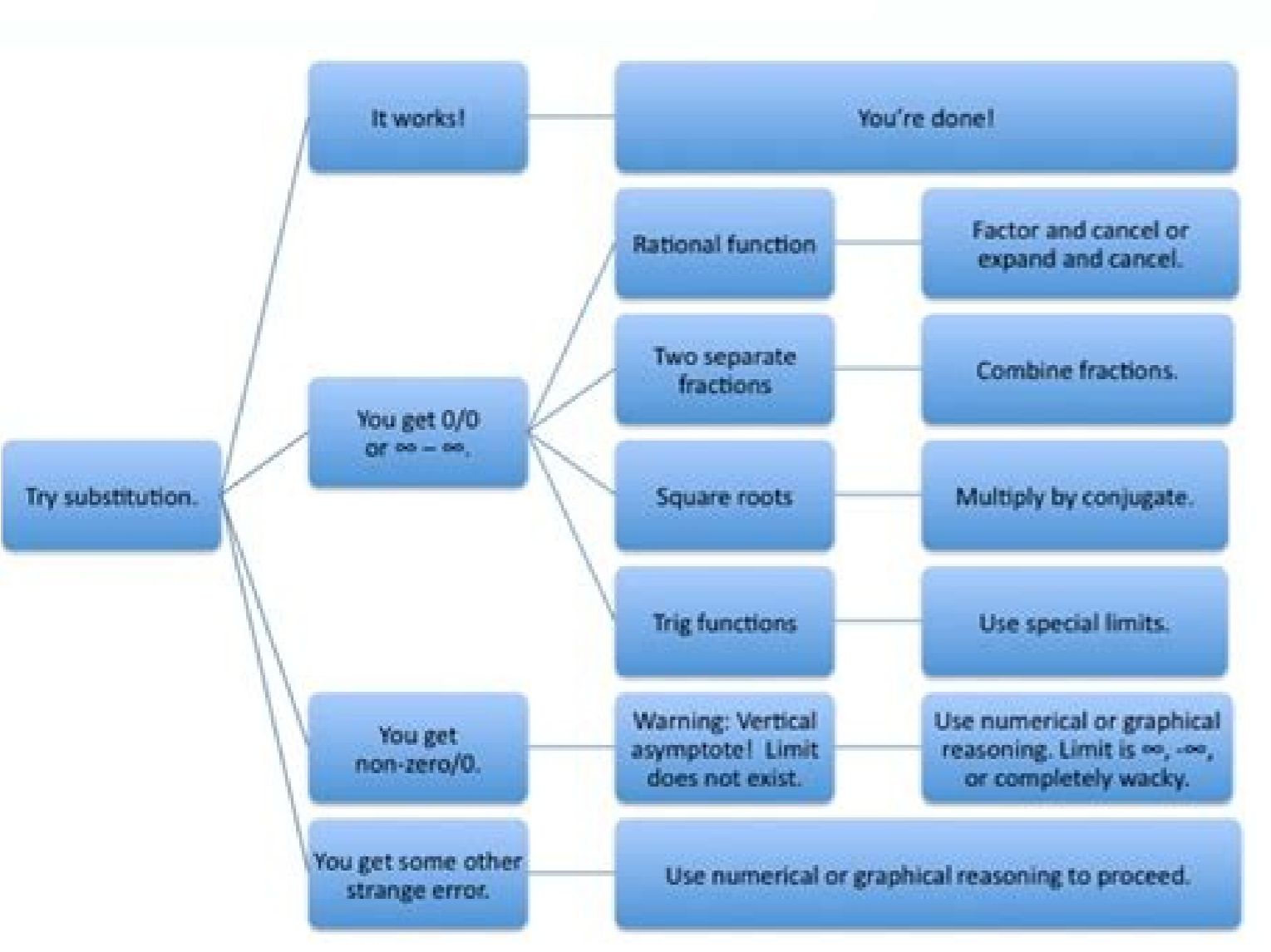
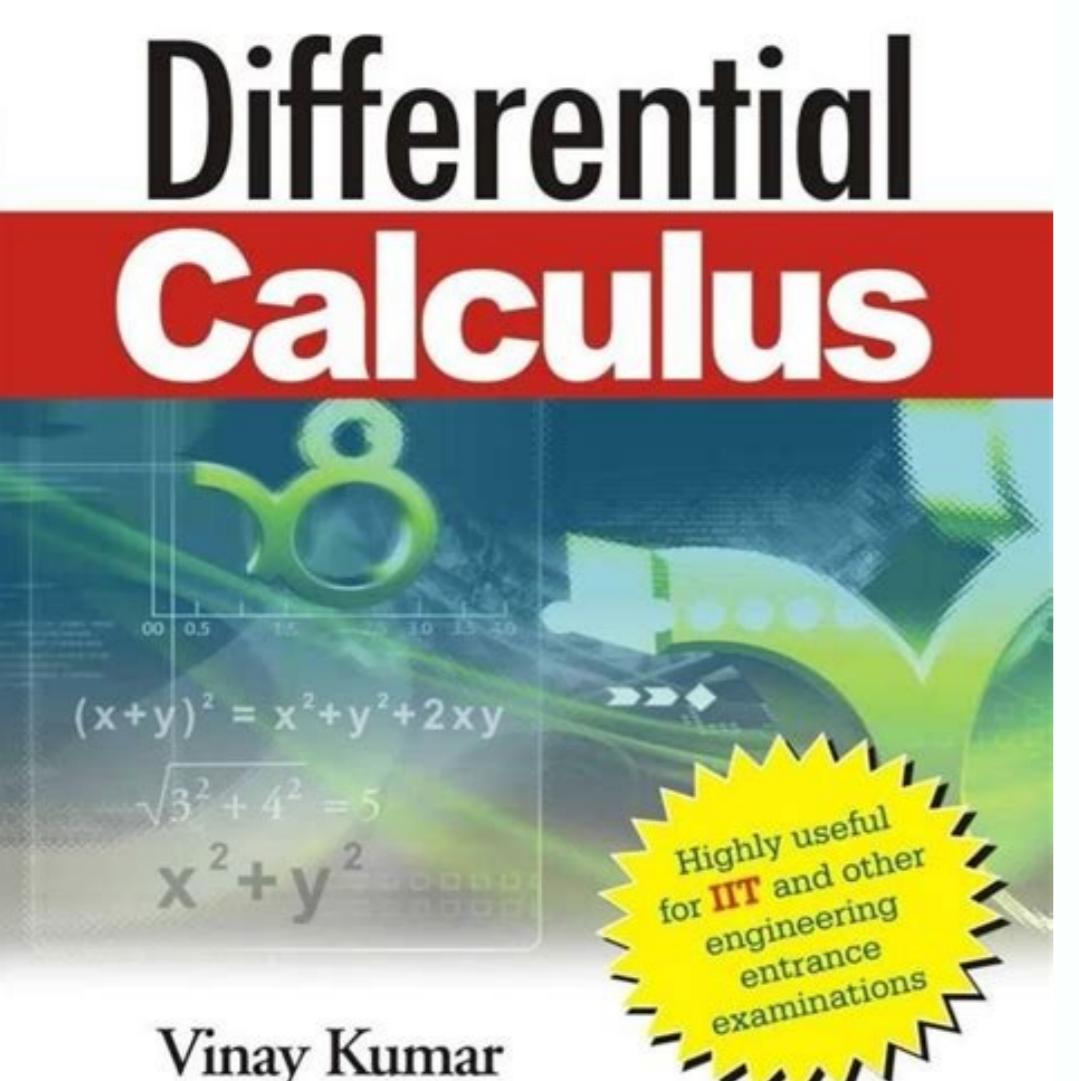
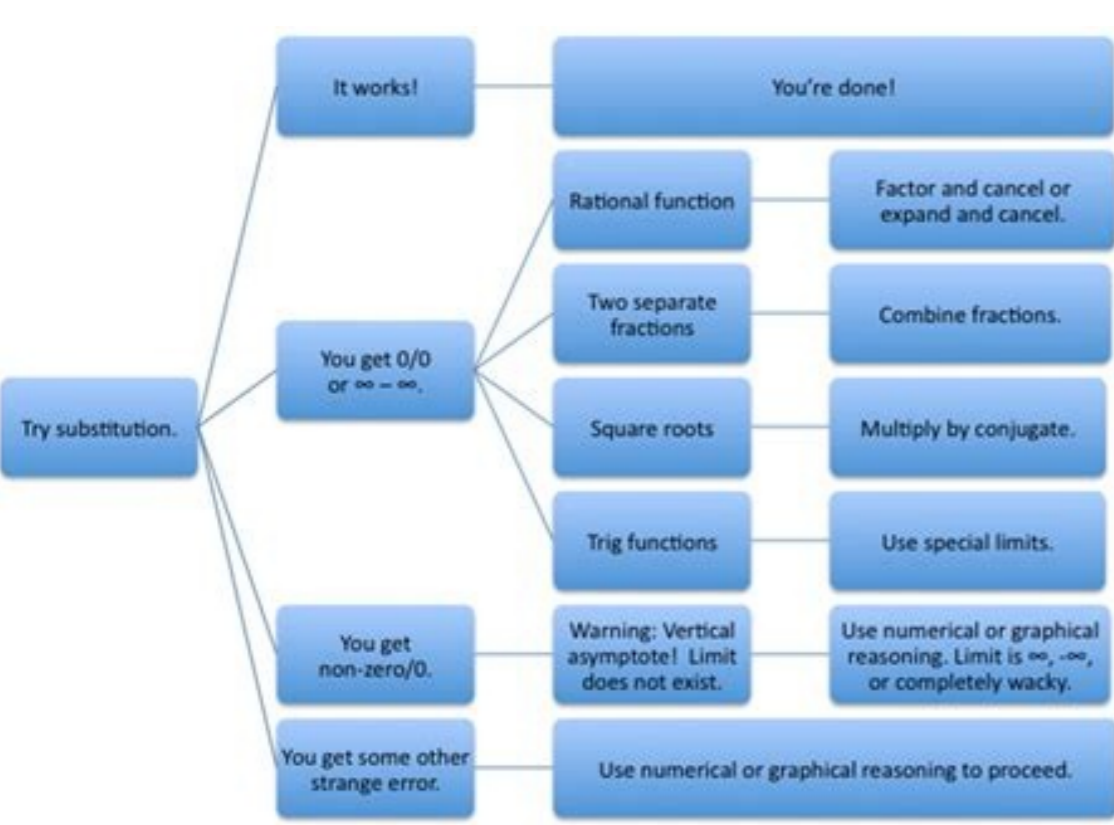


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Squeeze theorem practice worksheet. Squeeze theorem problems and solutions pdf. Squeeze theorem practice problems.

In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. Squeezing a function between functions The squeeze theorem is another way to solve for tricky limits. It works by finding two functions,  $f(x)$  and  $g(x)$ , that are, for every  $x$  in their domains, greater than and less than the target function,  $h(x)$ , respectively. If  $f(x)$  and  $g(x)$  have the same limit at some value of interest, say  $x_0$ , then so must  $h(x)$ . More precisely, the theorem says We seek  $\lim_{x \rightarrow x_0} h(x)$ . Let  $f(x) < h(x) < g(x)$  for all  $x$  in the domains of  $f(x)$  and  $h(x)$ , and let  $\lim_{x \rightarrow x_0} f(x) = L$  and  $\lim_{x \rightarrow x_0} g(x) = L$ . Then  $\lim_{x \rightarrow x_0} h(x) = L$ .

**Squeeze Theorem Statement:** Let  $f, g, h$  be functions defined on a common domain  $D$  containing  $x_0$ . Suppose  $f(x) \leq h(x) \leq g(x)$  for all  $x$  in  $D$  and  $\lim_{x \rightarrow x_0} f(x) = \lim_{x \rightarrow x_0} g(x) = L$ . Then  $\lim_{x \rightarrow x_0} h(x) = L$ .

**Proof:** Let  $\epsilon > 0$ . Since  $\lim_{x \rightarrow x_0} f(x) = L$ , there exists  $\delta_1 > 0$  such that  $|f(x) - L| < \epsilon$  for  $0 < |x - x_0| < \delta_1$ . Similarly, since  $\lim_{x \rightarrow x_0} g(x) = L$ , there exists  $\delta_2 > 0$  such that  $|g(x) - L| < \epsilon$  for  $0 < |x - x_0| < \delta_2$ . Let  $\delta = \min\{\delta_1, \delta_2\}$ . Then for  $0 < |x - x_0| < \delta$ , we have  $L - \epsilon < f(x) < L + \epsilon$  and  $L - \epsilon < g(x) < L + \epsilon$ . Since  $f(x) \leq h(x) \leq g(x)$ , it follows that  $L - \epsilon < h(x) < L + \epsilon$ , which is  $|h(x) - L| < \epsilon$ . Hence  $\lim_{x \rightarrow x_0} h(x) = L$ .

**Applications:** The squeeze theorem is often used to evaluate limits of trigonometric functions. For example,  $\lim_{x \rightarrow 0} x \cos(1/x) = 0$  because  $-x \leq x \cos(1/x) \leq x$  and  $\lim_{x \rightarrow 0} x = 0$ . Another example is  $\lim_{x \rightarrow 0} x^2 \sin(1/x) = 0$ , where  $-x^2 \leq x^2 \sin(1/x) \leq x^2$  and  $\lim_{x \rightarrow 0} x^2 = 0$ .

**Related Topics:** Limits Calculator, Derivative Calculator, Integral Calculator. Example 1: If  $6 - x^2 \leq f(x) \leq 6 + x^2$  then find the value of  $\lim_{x \rightarrow 0} f(x)$ . Solution: We know that  $\lim_{x \rightarrow 0} (6 - x^2) = 6$  and  $\lim_{x \rightarrow 0} (6 + x^2) = 6$ . Hence, by the squeeze theorem,  $\lim_{x \rightarrow 0} f(x) = 6$ .



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