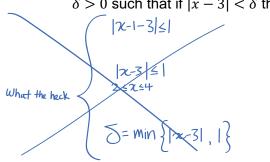
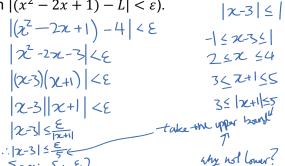
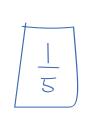
- 5. Consider the function $f(x) = x^2 2x + 1$.
 - a. Graph the function on Desmos. What do you the limit of the function is at x = 3?



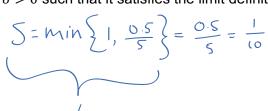
b. Suppose $\varepsilon = 1$. Find $\delta > 0$ such that it satisfies the limit definition (that is, find the $\delta > 0$ such that if $|x - 3| < \delta$ then $|(x^2 - 2x + 1) - L| < \varepsilon$).







c. Suppose $\varepsilon = 0.5$. Find $\delta > 0$ such that it satisfies the limit definition (up to 4 decimal places).



d. Suppose $\varepsilon=0.25$. Find $\delta>0$ such that it satisfies the limit definition(up to 4 decimal places).

