

Reflection

Today's lesson focused on how to use a graphing calculator to find a function's limit. Again, this emphasized the point that we cannot simply put in our number and receive our limit, we must check numbers around it to find a very close estimate. This brought us to the problem of "*what if we cannot find a limit?*". If we use our calculators, and find that the function seems to be approaching different numbers (for example, both 1 and -1) depending on which side (left or right) you traced it from, we can come to the conclusion that the function's limit does not exist. We also practiced finding a limit from either the left (-) or right (+) side, based on the positive or negative notation. If we have the problem $\lim_{x \rightarrow -2^-} f(x)$ (for example), in order to find the limit we would look at the graph, and approach -2 from the left side to find the function's limit. This example illustrates a one-sided limit.