

Reflection

Today's lesson introduced the idea of a limit. We see that limits can arise in a variety of contexts—through geometry, adding numbers in a sequence, or in physical situations such as a falling ball. In two of our problems, we found that it makes no sense to calculate an expression that evaluates to $0/0$. However, there are some situations where the numerator and denominator can both approach zero and this will give something meaningful. We also practiced a bit of notation. For example, if a function $f(x)$ nears 7 when x nears 4, we write $\lim_{x \rightarrow 4} f(x) = 7$. This is read as, “the limit of f of x as x approaches 4 is 7.”