Sections 2.1 and 2.2 Supplement

Three important functions

The first function we will look at is $f(x) = \sin \frac{1}{x}$. Topologist sine curve

Find $\lim_{x \to 0^+} f(x)$

Let's look at the floor function $f(x) = \lfloor x \rfloor$ and the ceiling function $g(x) = \lceil x \rceil$.

$f(x)$ is defined as the the greatest integer less than or equal to x.

$g(x)$ is defined as the smallest integer greater than or equal to x.



