

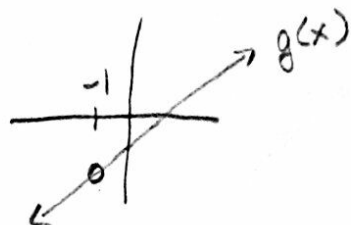
Lesson 3: Limits, Part 2

Def $f(x)$ is undefined at $x=c$ if $f(c)$ doesn't exist.

Ex 1 $f(x) = \frac{1}{x}$ is undefined at $x=0$ 

Ex 2 $g(x) = \frac{(x+1)(x-1)}{x+1}$ is undefined at $x=-1$

but $\lim_{x \rightarrow -1} g(x)$ exists



Ex 3 $h(x) = \tan x$ is undefined at $x = \frac{\pi}{2} + \pi n$
 $= \frac{\sin x}{\cos x}$ ↑
any integer