Graphing Piecewise Functions

ex: $f(x) = \begin{cases} 3 - x & x \leq 1 \\ 2x & x > 1 \end{cases}$

Evaluating Limits Numerically

* Use table of values to find the limits

ex: $\lim_{x \to 2} \frac{x-2}{x^2-4}$

x	1.9	1.99	1.999	2	2.001	2.01	2.1
f(x)	.256	.251	.250		.250	.249	.244

$\lim_{x \to 2^-} f(x)$ $\lim_{x \to 2^+} f(x)$

$\lim_{x \to 2} \frac{x-2}{x^2-4} = .25$ OR $\frac{1}{4}$