

RECAP

DAY 6, 2/14/22

To calculate limits, first evaluate the numerator and denominator.

denom \ num	$\neq 0$	$= 0$
$\neq 0$	Plug in	0
$= 0$	DNE (does not exist)	Rational function: Factor Complex fraction: Simplify Roots/radicals: Conjugates Trigonometric: Use $\lim_{h \rightarrow 0} \frac{\sin(h)}{h} = 1$ Must match <u>exactly</u>

1) After each cancellation, recheck num and denom.

2) Rational functions: $\lim_{x \rightarrow 2} \frac{\text{num}}{\text{denom}}$

$(x-2)$ will need to factor out of num and denom