

When lim of $x \rightarrow \#$

1. Try to solve by substitution
2. If you get $0/0$ cancel, factor and do other algebra
3. If you get $\#/0$ Check nearby numbers, its either + or - infinity

When $x \rightarrow +$ or $-$ infinity

1. Highest exponent in numerator infinity
2. Highest exponent in denominator 0
3. Equal exponents ratio

L'Hopital's rule

L'Hopital's rule plug in derivative of numerator and denominator seperately, before you substitute the numbers then simplify rule

Derivatives of Trig Functions

Sin	cos
Cos	-Sin
tan	sec ²
cot	csc ²
sec	sectan
csc	csccot



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