Subject: Calculus Created by: Isaac Viegas Revised: 03/28/2018

## Limits to Infinity

Summary:

lim –

lim	powerofx samepowerofx	coefficientoflargestx coefficientoflargestx
lim	smallerpowerofx largerpowerofx	
lim	largerpowerofx smallerpowerofx	

Check every term for a higher power of x—most exams have at least one trick question to make sure that you are paying attention!

Double-check whether your limit is to or to - .

You will see this everywhere: Iim – It is important to remember this. Similarly, –

and – –

Common Cases:

Both top and bottom have the same highest power of x:

lim <u>+x</u> <u>+x</u> <u>-</u> <u>-</u> <u>-</u> lim - -

\*Be careful! x+ +x +x =x +x +x+



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