

A. P. Calculus Holiday Assignment
(Due the day of the PreCalculus final exam)

Your task is to go to Khan Academy (see the link below), watch the assigned videos dealing with Limits, and take notes on all information presented.

Notes should be hand written and include graphs, work, and ***explanations***. Just copying what he writes is not good enough. Each video title should be a heading in your notes

You will submit your notes to me on the day we take the final exam. These will be graded and used as your first grade in Calculus.

<https://www.khanacademy.org/math/differential-calculus/limits-topic>

Videos

1. Introduction to Limits <https://www.khanacademy.org/math/differential-calculus/limits-basics-dc/limits-introduction-dc/v/introduction-to-limits-hd>
2. One-sided Limits from Graphs <https://www.khanacademy.org/math/ap-calculus-bc/limits-basics-bc/one-sided-limits-bc/v/one-sided-limits-from-graphs>
3. Determining Which Limit Statements are True
<https://www.khanacademy.org/math/differential-calculus/limits-topic/calculus-estimating-limits-graph/v/determining-which-limit-statements-are-true>

4. Two-sided Limit from Graph <https://www.khanacademy.org/math/calculus-home/limits-and-continuity-calc/one-sided-limits-calc/v/2-sided-limit-from-graph>
5. Limit Example 1 <https://www.youtube.com/watch?v=GGQnglp0YGI>
6. Limit Properties <https://www.khanacademy.org/math/differential-calculus/continuity-dc/limits-of-combined-and-composite-functions-dc/v/limit-properties>
7. Limits to Define Continuity <https://www.khanacademy.org/math/ap-calculus-ab/continuity-ab/continuity-at-a-point-ab/v/limits-to-define-continuity>
8. Limit and Function Defined at Point of Discontinuity
https://www.youtube.com/watch?v=bBAiZhfH_4
9. Fancy Algebra to Find a Limit <https://lol.khanacademy.org/math/differential-calculus/limits-topic/continuity-limits/v/fancy-algebra-to-find-a-limit-and-make-a-function-continuous>
10. Defining a Function at a Point to make it Continuous
<https://www.youtube.com/watch?v=CNBarmpHn4k>
11. Limits and Infinity <https://www.khanacademy.org/math/differential-calculus/infinite-limits-dc/unbounded-limits-dc/v/limits-and-infinity>

12. Building the Idea of Epsilon – Delta Definition

<https://www.youtube.com/watch?v=ljzn4SADuZc>