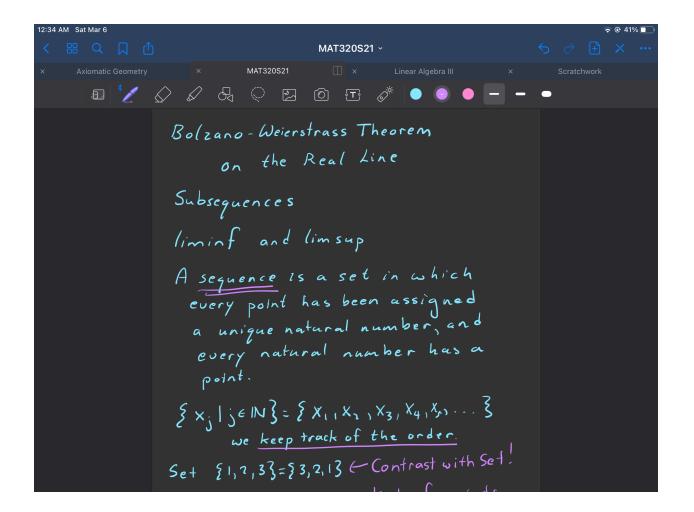
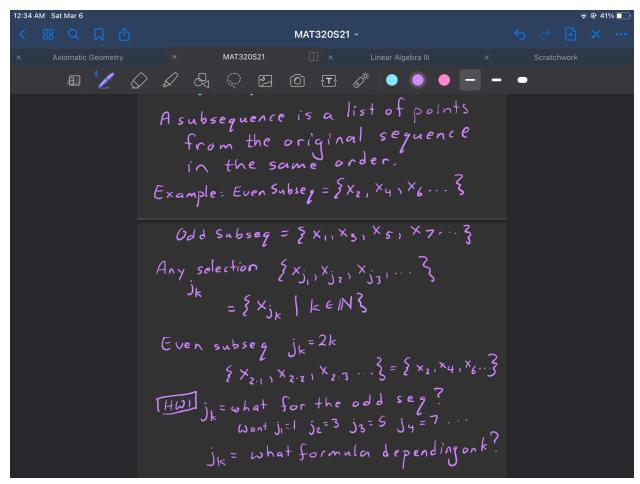
Analysis Lesson 11 Subsequences, liminf, limsup, and the Bolzano Weierstrass Theorem

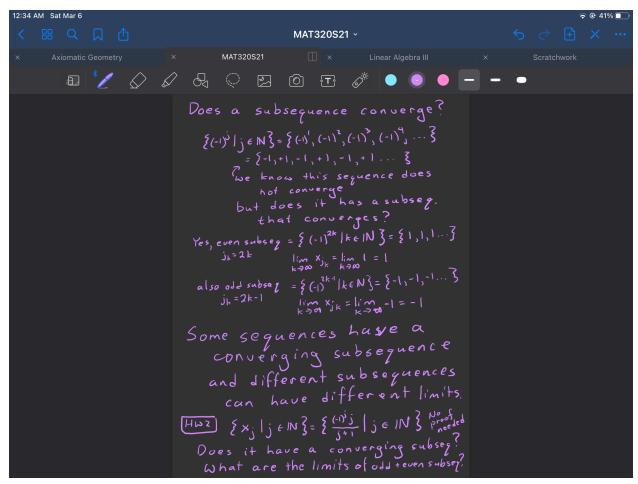
Two parts and 9 HW

Part I Watch <u>Subsequences Playlist</u> and then do the four HW.

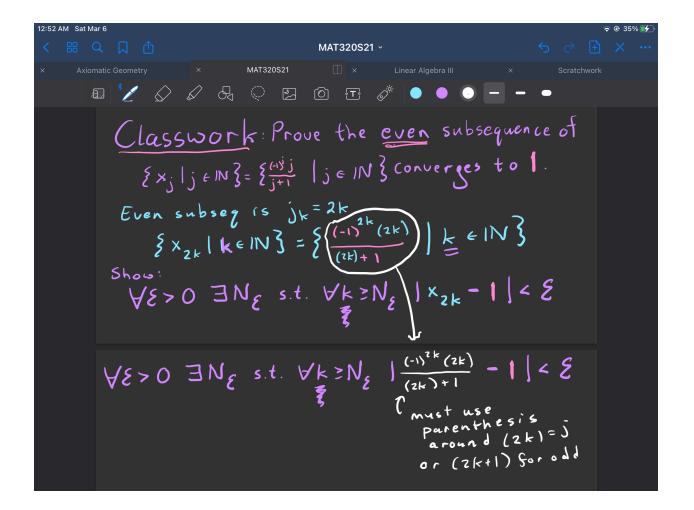


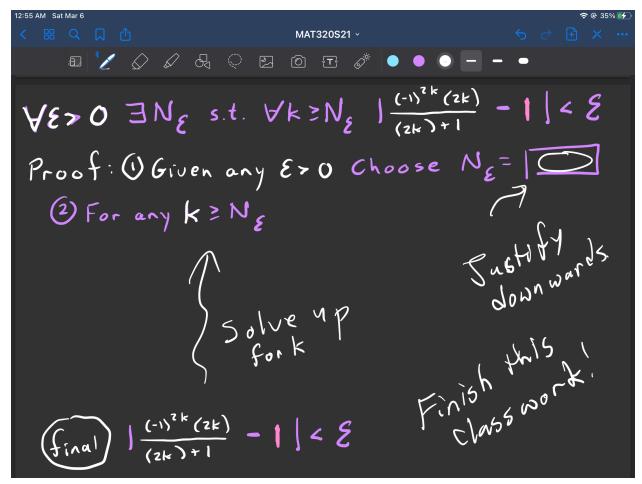


Part1 HW1 above

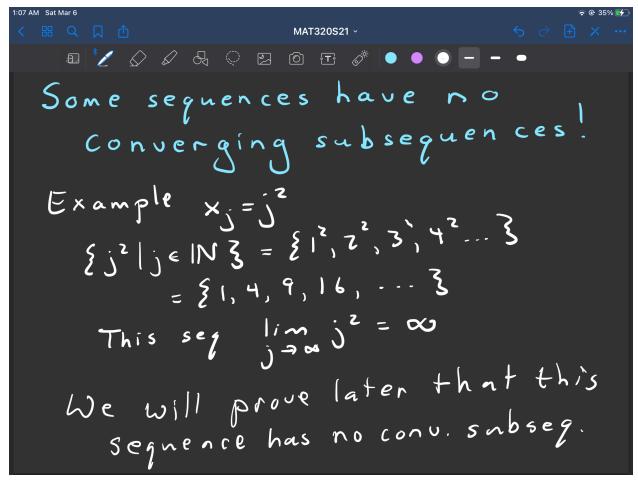


Part 1 HW2 above

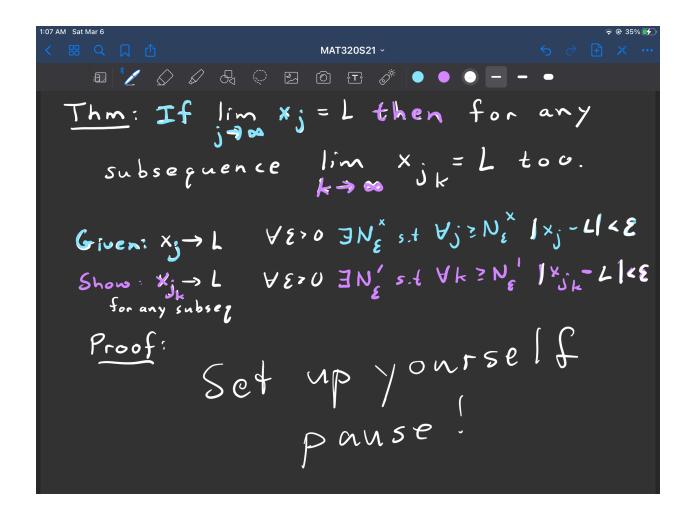


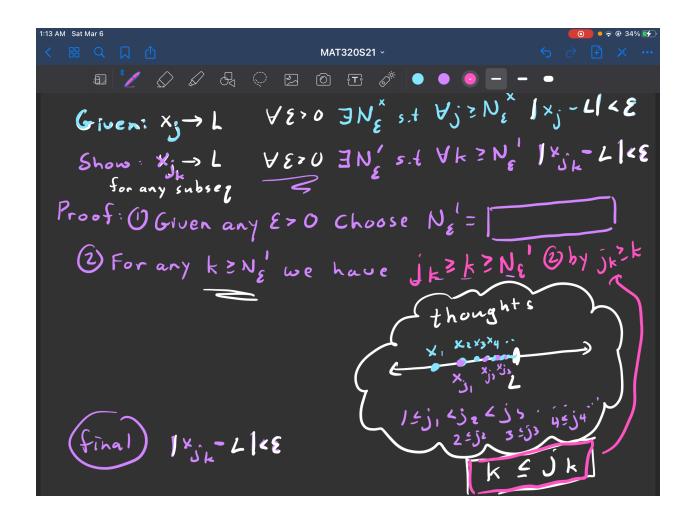


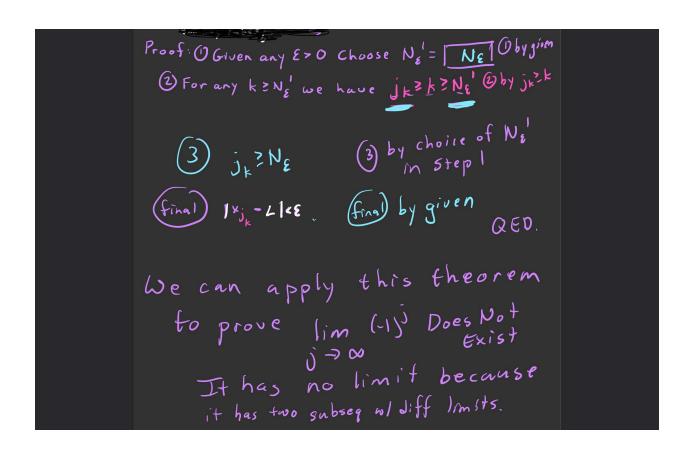
Part 1 HW3 finish classwork above



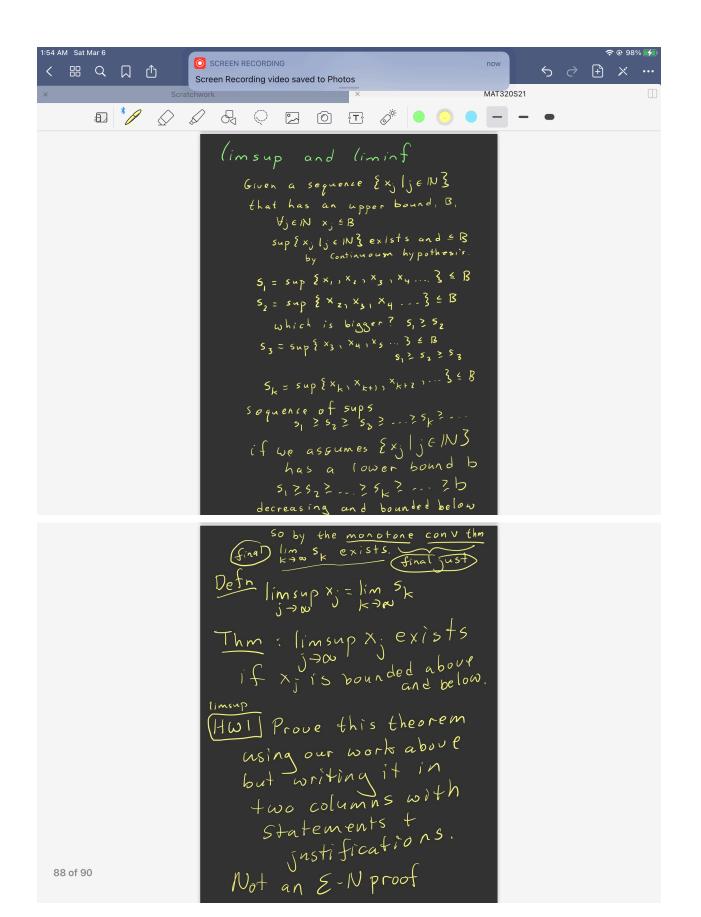
Part 1 HW4 imitate the proof below to prove any subsequence of the sequence above also diverges to infinity (not required)



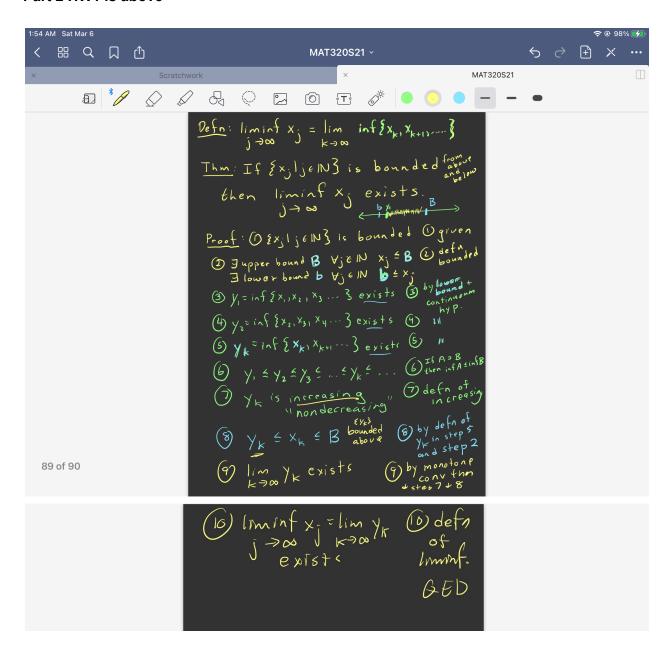


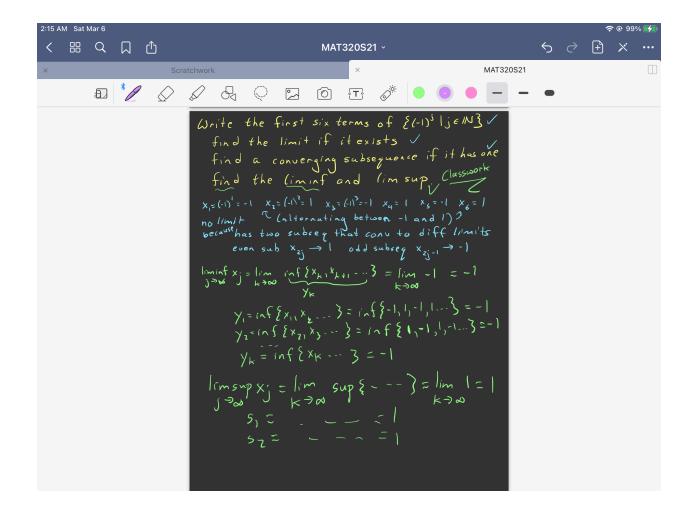


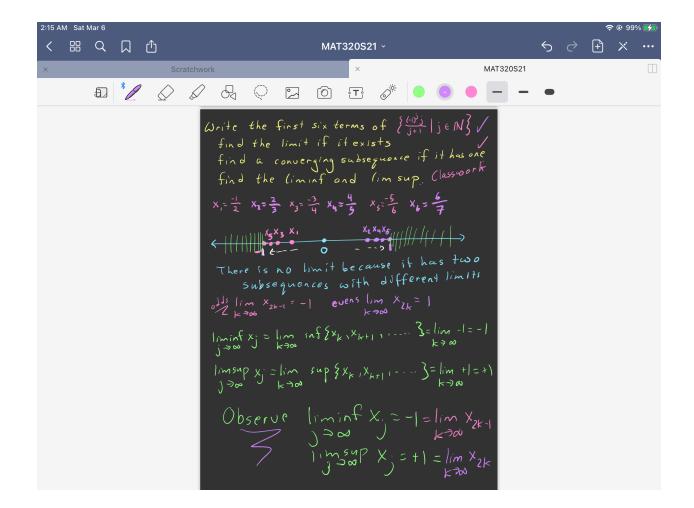
Part 2
Watch limsup playlist and then do the five HW.

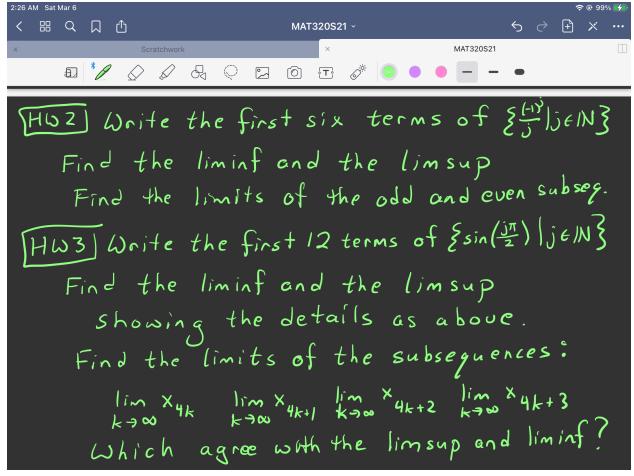


## Part 2 HW1 is above

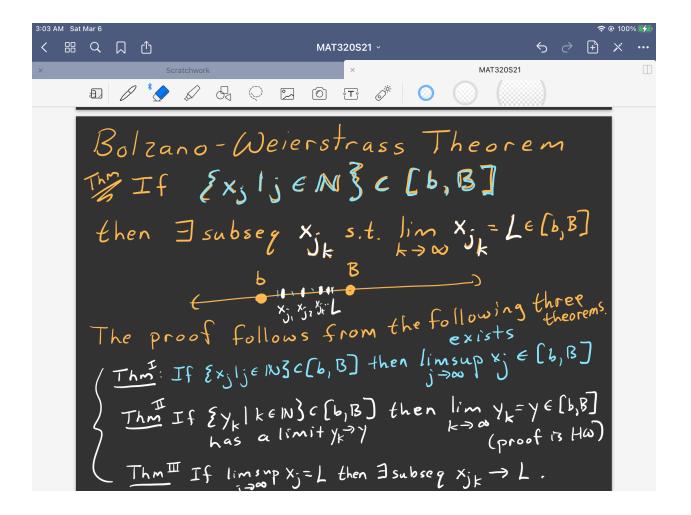


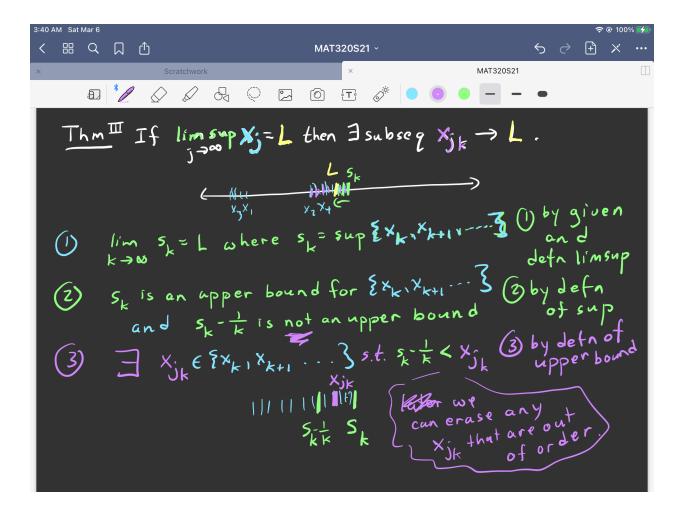


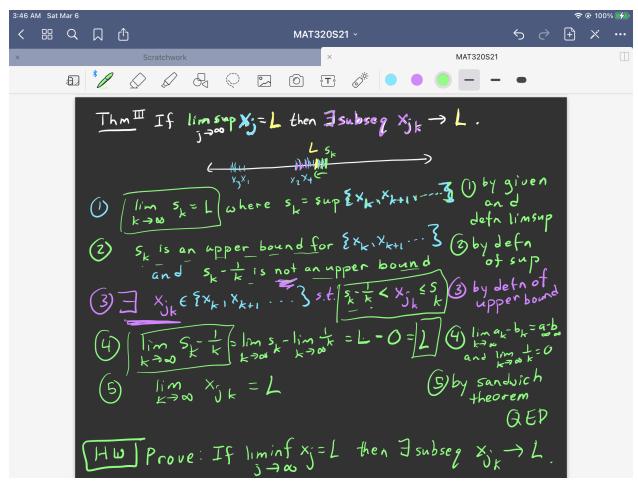




Part 2 HW2 and HW3 are above







Part 2 HW4 is above

Part 2 HW5 Find a sequence that has a subsequence converging to a limit which is not the limsup and also not the liminf.