lecture 10. asbec. atteczh. ab L=72. = 2.2.2.3.3. "my oldest child likes stramberry" -> only one oldest child => the ony case could be 3, 3, 8 Chapter 03: proofs. \$3.1. Prov) Stratgles. P-> C2 27 P +len C2. ef. Suppose new Prove that if no, then n'>n Given Goul nen no no no no. Stratey: To more P > C2. Assume P then try to prac Q. => Add P to the given, change the goal to Co Gren Gool. nenanol non Sine no, then no Muluply each sides by n, to get n3>n Box): let nEN and suppose n>1. Since n>0 ne can miligh, hart sides by n en get

non, therefore, not ingles non it B.G.D Prov): Assung P prov7 07 Q. Therefore, Pamphes C2 17 Proof: Let noN, ?7 noo, then non. Connerexample: nel flen noo, non and not non Swatgy 2: To once P -> a, Assume Ce Jalse, prove Pis False. P-> (2:77 - G -> > P. e.f. Provid: xCR prove that Jat = x+2. then x+3. firen that x=3, then Jx+7=4 x+2=5, 4+5. Therefore, Jx = x +2, then x + 3 :5 +ne. Suppose 70, prove 7 P Therefore, P > C2 & 3.2. Prove revolve 7 p and P > C2. Suppose ANCEB, and a.EC. prox a E A B. (a). Goal Given Ancib agas. aGC aGA > aGB

