(3) a) Stage by proving the contin positive the state was becomes Cl Satllb and cl Cu + 136 then elb We know that cla and clb then clax + by I for gur jutures x, y Cthis is from Dich => CI(CSa+111) & + C16a+13b). (-5)) <- prox 4z-5 am xz8 2) CI(300 - 3000 + 666 - 656) 2> 016 f from simplifying b) the converse is: if Ct(Sa+ 116) Ob Ct (sa+136) then Cts C) the converse is false d) We will despoor the universal quantifier with a courter example: IF C and b 27, and a 21 We set; = 7 x (5.1 + 7.11) 06 7 + (6+ 11) then 7 + 7 7+82 06 7+97 747 tene tone false . Since one hypothesis is tome but one conclusion is falle, these exsists a 1 Set Of a, b, c where the statement is false. This means the convexe is false.

Hilroy