

3. Lot's check the following statement: It xco. - Hen x - 20 >0 Contrapositive: If x-x <0, then x could not be less than thatis, x >0. Someone said X30. X could be 2, but 2'-270 So the contrapostive is not required to original statement why is this wrong -Actually, this person is checking the negation of the original statement. The contrapositive is just that if x E[O, 1) Corollary: Converse ( ) Negation Note: Contrapositive ( ) or ginal statement is is legic basis of "Contradiction" a deeper question is why is contradiction right? Actually, this is related to the dichotomy /daikstami/ of mathematical legio, that is, the world is divided into something and its negation, no Interim Note 2: In mathematics, there are three popular Proof methods: Contradiction, Deduction & Induction. A further example " If you don't study math well, you won't be a good economist " > "If you want to be a good economist, you must study math well", that is math is a necessary condition of being a good ement 4. O. If all the quantifiers in a given proposition are of the same type, the order of the quantifiers eg. VacR. yer, (x+y)= x2+=xy+y2 (2) The order of quantifiers becomes significant
of quantifiers of different types are involved 29. V x>0, 3 y>0, s.t y=x (V) Negation: 3 x >0, 4 y >0, y2 + x (V)