Q1: Let x be arbitrary and assume x GAIC, Hen xGAND&C Gien that ACB, SO Yx (xGA -> xGB) Since x is arbitrary, XEBNUEC holds, then ALCEBIC is true. (22: a) x = 3 could not lead to x = 9, because if x = -3, x + 3 but x2 9, so x2 920 and we cannot divide both sides by x2-9. b) We can pick x=-3. y=1 for an counter example, then x2 = 9, 9, =9, x2, =9, and / +0. Q: To proof that y 20 -> x to. Let x=0, given that xy=2x2-y, 1=0. Therefore, since x=0-> y=0, y to-> x to holds.