Exercise Sheet 15: Pavel Chazargan CEX. 156 1 1 10:10756505 a) Transistive: Let's say x is a student then y is taking the same course: =7 (x,y) if y and Z area bating the course to getter. Here can be a situation when I and I don't have the sand couse 50 => (xy); (yz) but no(x, z). c) Transistive; If m is a factor of they fore sure it is a factor of some & when a divides K. Becaus s then the a is a factor of to and 5) mis a factor of 1 =7 (M K) True J not Frasifitive ao relation f).

a V 7/2 b

betwe (ae) ore (be).

c closure: (ae); (bc) (a,c)

e d

CEX. 158 a) Reflexive V => Egrevalent Symmetric V Transitore V (2) (2) Rollerive V Transitive V = 2 Equivalent. Symmetrical a) • [[0] [1] [7] [3] CEX, 161 Unit [1] COJ COJ COJ COJ [0] no inver [1][2][1][2][3] [12 invers[1] [S][O] [S][S][3] [3] [0] [3] [3] [3] 123 invers[2] + [0] [1] [3] [3] inverse[3] Unit IOT CO) [0][1][2] [3] [1][1][0][0] [0] [0] inverse [8] [8] hwerst [2] [2] [3][6] [01] [1][I] inverse [3] [3] [0] [1] [2] [2] [2] mourse