

:77 jyx (xGA-) xGB) I N L Vx (xGB-) xGA)]. 277 ACB ABGA eg. u=w m divides n, m/n Vxon Byom yaxk. e.j. Ris composite 3m In (k2 mn 1 m21 / n21). ef. kis prime. k>1170 e. j. d is the freatest common divider for m and n (d/m/d 1 m/d) 17 (c)d/m/c 1 m/c) e.f. W = R · Every real number has a cube root Vx3y x= y3 Every real number has a unique cube root. (Hx 3/ x= y3) 1 (732 32/1 x= 23) Vx 3y [(x=y3)x(Vz x=23-> Z=y)] Shorthand: I! > exist an unique number y. E By A 7 BZ (P(8)AZ XY) Every positive under has mo Equare voors. Vx x >0] y] 2 x= y2= 22 1 y = 2 § 2.3 More operation done sexs Power sets: Given a set A, the poner sets is the. Set at of all subsers of A. PLA) = SIS ISEA]. e.e. Piu,3)]=[(2)(3),(2,3), \$2.3),\$7.

2 & Picr, 2)]. & int is not an element. {2} & P [(1, 3)]. < set. {2} & Piu, 3)]. < 2 is not an element in any of these sets. Ø 6 P[(2,3)] 7 special case Pco) = { \$? the power set of an empty set is a set has only an enpty set. Bis the element of P => Bis a subset of A I) A has n element, then the poner set of. A has 2" element.