Viscrete Structures 10/19/23 HW 6 Josiah Schmitz 3.2.2 Answer c 3.2.15 b. True d. True e. False, x=36 6.1.17 b. A B U C. C. 6.2,20 A & ( means that every element of 4 is in C. BEC means that every element of Bis in C. AUB refers to every element in A or B. Since every element in A and every element in B is in C, every element in AUB BinC. .. AUBEC 6.2.35 Suppose there is an element, x, that is in AMC. This means x EA, X EB, and x E C. However, BMC=0 implies that there is no x such that xEB and xEC. This is a contradiction. :. A  $\Lambda C = \emptyset$  is true.