

problem 2: suppose G: (V.E) is undirected (un weighted) simple groph. A subset U & V is called a base for G in u. no the ff: A) Given G: (V,E) is it true that V itself is a bose for yes, by definition of E, every ein E has an B) is there a graph G housing abose that is the empty set? IT so, give an example ves, any graph with one or more vertices and no edges is an example. 00 c) given an example of agraph & having on vertices and a base of siges if u= fA7 and every edge has one end point inu. 0) Given an example of a graph G having an vertices with the property that every base for G has size at least n. if no the given edges are in 0-0 I then the each node have one end point in the graph. e) Devise an algorithm to some smallest Bose Decision problem. Pt obtain Set & all Subsets of V current Base - V for u in p do for e in E do at left endpoint one be right endpoint obe if ain u or bin u then

