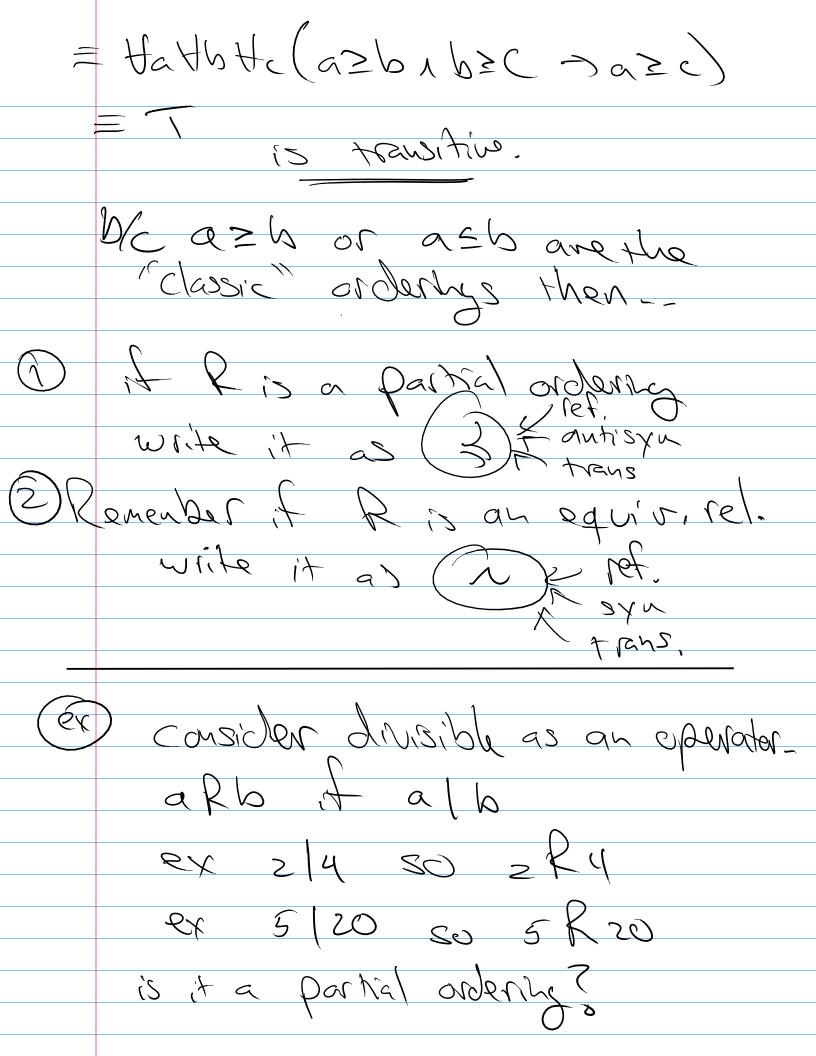
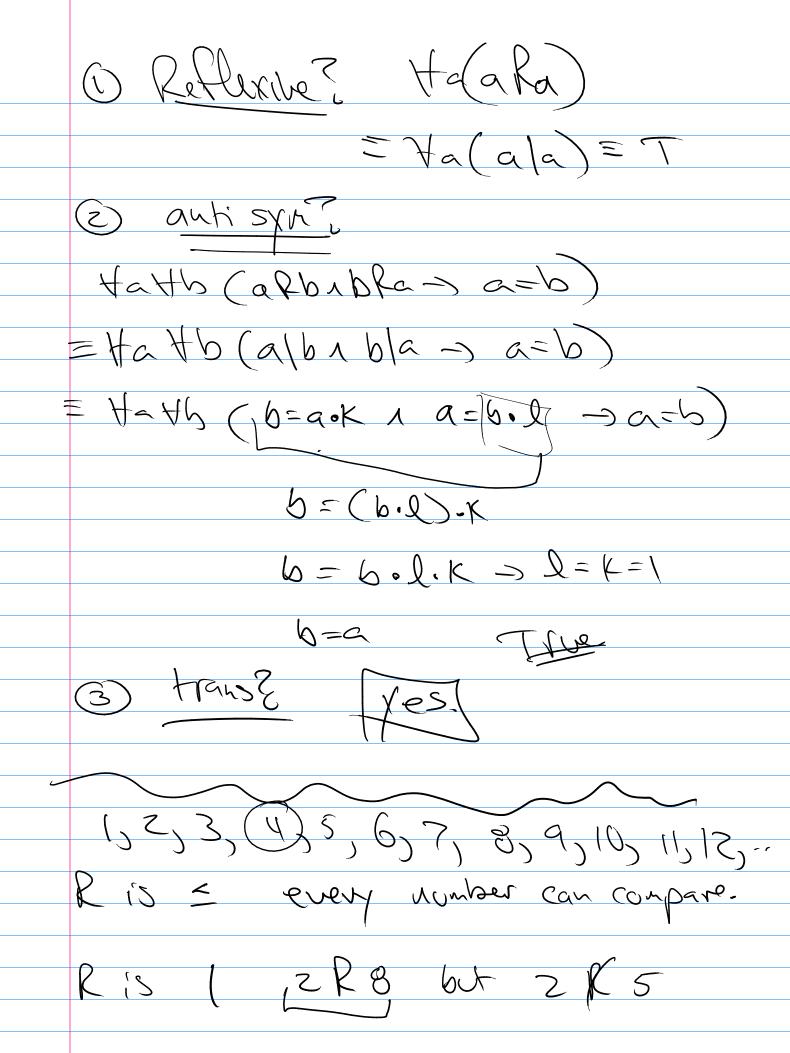
8.5 \$33 S = Set & all Strings alnbiffa=b or both are at least n characters long and share 1st n charc. Ry ex abod Ry abedet ab Ry ab

332) [010] Ry = {5 | 010 Ry 5} = 010 336) [1011] Ry = { 5 1 1011 Ry 5 } = {(011, 10111, 10110, 101111), 101110, (01(01, 101100), 5 = 1011 followed by anything Not: could you show by is an equivirelation? Show, Symmetric 454+ (5Ryt > thys) show: reflixive 45 (5 Rys) L show: townsitive HSYTHU (SRy+1tRan -) skyn)

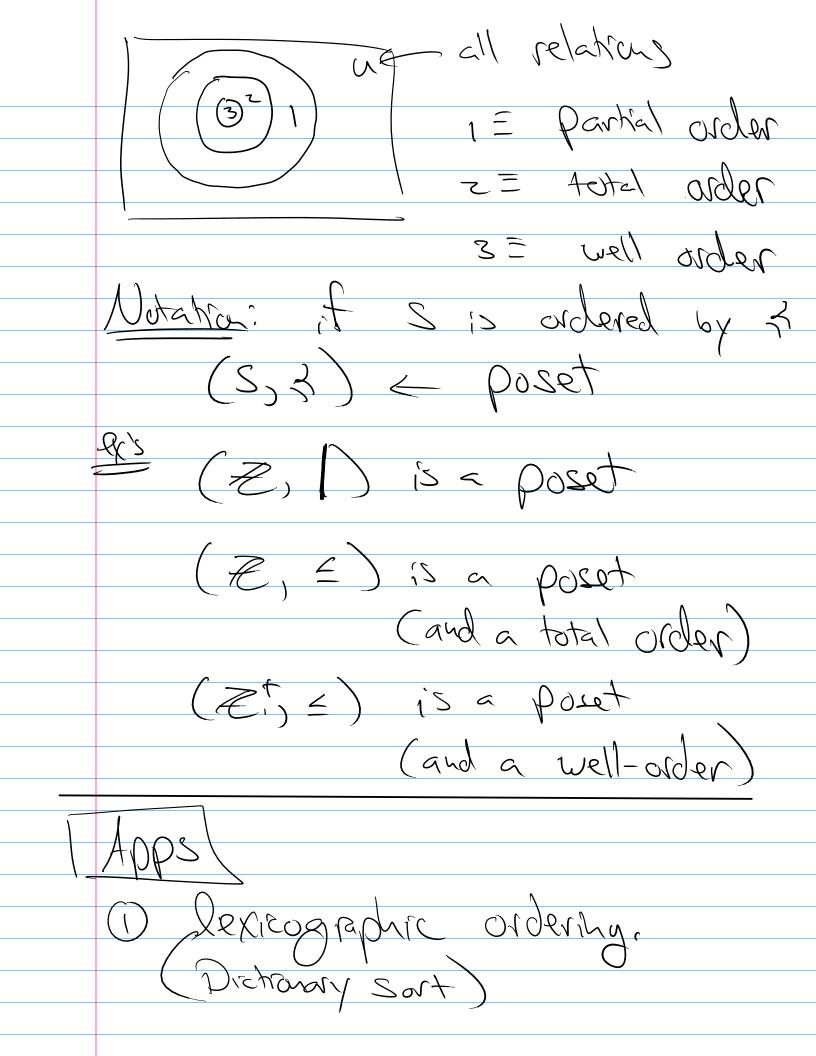
(8.6) Parkal Orderlys Rule that relates a tob for aRD. Need: Danti Syn. D reflexive (3) + ransitive Why the word "partial" exi a Rb when a = b O letterive? Ha ala = T is returive @ antisyric Hatb (aRbibla -) a= b) = HaHb (a>b16>a-b)=T 3) tausitie? Hattbyc (alborble -ale)





Def: # 936 or 649 then as are comparable. If not a, b are incomparable In a partial orduring not everyone can be compared. ex) It everyone conperes to total ordering = partial order Erehors Compares ex R was \(\peres\) is a total order.

on the integers. 15 If is a total order and every non-engly subset at S has a least elevent -> well-ordered

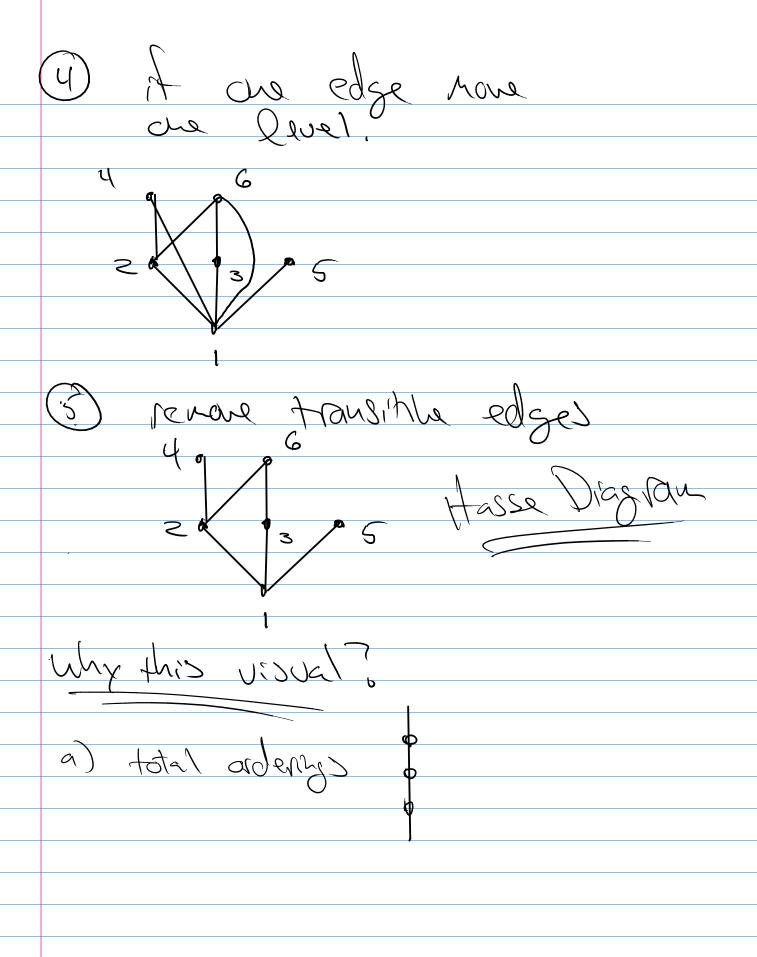


mark ys markeous MaQAK VS abQOCT J S(= (a1, a2, as)., an) vs >= (b1, b2,, bm) S, 2 Sz

if a, x b,

or a,=6, 1 a, x bz or as=bs 1 93 2 63 3, is sharter than Sz and all symbols is 3, 1'Sual Version (Hassa Diagran) degraph (81,2,3,4,5,63, 1)

Hasse Diegran simplifies draw 10008 (we know there rid et arrous by.



6) Maximal (minimal elevents Maxinals: 4,6,5 3/5 Minimals; abare pelousers. every che. E. greatest: none) given a subset does it Sperbonds (lower bounds

(overband: a or below the
Set El]