Note Title 1 HE O Throuncements Office Hours: Some helpful links (Must or done ection Class! Mursday were added to Individually 2 [0 - [1:30 0000 the web a 1 1/13/2010

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June (15 m, << June (2) - O(m)): (a June (a m))

Set No = 3

and c=1 (15 m, << June (2) - NO

June (2) cond No S.t. An > No)

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June (2) cond No S.t. An > No) () () () TX T ast time -Par Co 38 りるし Q 2 2 2 250 n compare TY: 710(2°) COMPACE

Z Induction: Kecursion's A A A A method -Show it holds for base base(s)! which relies hoped smaller values already being shown. -If holds for values in the your new best tional a statement 13

Dase (CCSP) Y values Krn NI NI 1) (r-1)(r + RHS = 1(2) K(K+1))(22)

Jase Ind 005R! **[]** (2;-1) (n-1) -+ (2n-1) = n2-2n+ (+2n-1) A KND N U () 521 12/2) 11 / ソーーリ 7 B

Need & trings: 220 1 base - Crow triduction thy Induction proof case (s) 1 A S كم pothesis ك ك Inductors 2 0

Chow Base Case! n=5 tx2 (induction on s) KKCD QKV ソ、リーン、・シ (ハー) パ・) ten (+c>(CXXCV × /

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tell each thow many Currently Q 018806 the. Q Z unique societ. EMOWS phone calls Tob less thow, a dog 2 3 each of which knows ----are needed n secrets each ohe Secrets betiere

Base 187 Case; MY n>4, then 2n-4 calls suffice Induction: Secrets in 2.4-4-4 ralls Need all 4 Induct on # of people **10**

of cont; Ind Hyp Fork on people calls. Ind Step! mul people -9 pesple 2 (n-1) - 4 calls Have M Call M-1.
Apply TH -> 2(n-1)-4 Have not call (Z)

Show that any set of n Hems has exactly 2" possible subsets (country the empty set).

Note about HW: (W)my? base case