Chris Haydul Lecture 9, Exercise A 9/23 1. Suppose XH = Hx EXHIREH3 = ELV KEH3 iix y \ x H, Hx. (cu n: 76 (for some h, he) 1=xh'= på 50 xh,x'=h 13 KH 30 Xh,x-1 HH. XHx-1 = Exhx-1 1KEH3 CH let KEH and fix xI-G. KNOW xhx =h

AFXHX ond HCXHx" her co XHX = H suppose x Hx' = H Now (xHx) = (H)x => xH(x)x) = Hx XH = HX 2. [13] 127 B& (5, 27) [27]

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157 = 81,53 = nH = Er, 153 513/+= (513, 51353 = Ers (15) 5 g = { 15, 13 45 (1.1) 1.60 = E 3 33 # H (513.513) H = (135513) H = (1-3 13) H = 11 H = H So (1.13H 7 (513.513)H

1) = 8/3, Let 6 = Da D: D& 26 H= E13 = K9 m [13] = 81, 133 - 14 bet b= Los D. 1 B-6-5 G