3,2 Discrete Math day 3 page 1

PS 146 Exercise #83-90 all

PD 147 Exercise # 116-121 all, 129,130

Sn = 2n-1, n ≥ 1

$$S_{nk} = S_{2k,1} = 2(2k+1) - 1 = 4k-2-1 = 4k-3/1$$

$$E_n = 2^n \quad n \ge 1$$

3,2 Disa	re	Math		C	lay 3	P	ase 2	
Exe	rc150	es pa	147	# 116-	- 121 all	, 129,	130	
116	ba	cab caaba	(b)	caabab	aab		baabb	aab
a) Ca	aba caaba	(e)	9		(£)	9	
(3))	8	(h)	/o		(1)	baab	
(j)	C	aaba	(b) bo	ab Caabo		(1) Cad	b4Caab	a bbab baab
		01, 10,		(19)	000, D	ol, olt ol, 118	0, 011 ₅ : 0, 111	
(120) 7	1,0,	1,00,01,11	000 راار	0,001,01	0,011,	100, 10	ار10 ارا	1)
(121)	7,9	, b, c, ba,	ab, bc,	, bab, ab	ic, babc			
(129)	f (d)=	= dab				. 1		C a bo
	Supp	use -(a)=-	(1B) th	en dab	$=\beta ab$	Thus a	'=β ·'	fs on to m
(+	Since	, Iten Iz	2 for a	ul a EX	+ fw) # } ! . + ! !	(Empty d	et) vto:
			tur		- / -	, ,		

(130) f(d)=dd Suppose f(d)=f(B), then dd=fB, thus d=B:. f is one-to-one If(d)| is an even integer for all a E X*, therefore f(d) \ne gaq for all d E X* 2. fis not onto.