10	Julia Nelson Problem Set 5 9/4/19
	"I preage my nonor that I have abided
	by the Stevens Honor System Julia Nelson
	25 Francisco - p. pricented 200
sel by	Problem 1
5/17	$L = \{0^{2^{2}} : i > 0\} \text{ generates } \{0,00,0000,\infty,00000\}$
the	we exists an int or such over well
X	y, t = 2 W = 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	such that
	= xy = w = xy = w = xy = w = xy = xy = x
	$\frac{yy}{2}n \qquad w_i = \frac{x}{2}y^2 = 0$ $\frac{x}{2} = 0$ $\frac{x}{2} = 0$
ন	
34	W. = xyiz Wo is Not in L
	Control of the contro
	2 9 2 3 DSGC000 30 11/A 00
7	Proidem?
	Prove Long B= {0,19: i 7 /3 is not regular
	Consider now Bis related to Non-reg lang
	B= 0 ² 1 ⁵ 2 + 1 ²
	lets assume B is Deglang
	and gen. Strings # or D's not equal to # of 1 1's
	A 11.50 SE 3 :50 SO VOMA
	Complement of B is B = \(\frac{20^{1}}{1} = \frac{1}{3} \) With equal # i's and i's
	B = 20 1 1
	if Bis regular, Bois B (closed prop)
	Since B fof B (not-reg) .
	B= {0'11/i=1} then
	$B = \{0^{i} i=j\}$ then $B = \{0^{i} i i=j\}$ is Not Regular

Provolem 3 Whats min pumping length &	Ar
Provovem 3 whats min pumping length &	Ar
Provolem 3 whats min pumping length &	8x
Provolem 3 whats min pumping length &	Ex
whats min pumping length	11
	ny otring of long
	pump lengthe
Min stringlength is 000	?'>P
=> 3 -> P = 3	() () () () () () () () () ()
So pumping length can be	THE THERE
P=2	1900 En
P1>P	18/21
3>2	04 x 15 101
2.0*/ = \(\) \(\) = \(\) \(1 1
min length pl=6	
50 cant be pumped P=0	40-10-0
3. 0*1*0*1*U 10*1 = {E, 019101, }	
Min string = E	
So connot be pumped	
Y C	1
4. (01) = {E, 01, 010101, 010101, 0-3	17
Min PIEE	A
Cannot pe formites 1. C	AND TO STATE OF THE STATE OF TH
S 1000 S	
5. 14014014 - 800,1010101,8	
Min string length PI=2 P can =1	
P can =1	
P1>P= 12>1-8	, , ,
B=30Mid Sies Sies	
V	

