	Horron-amply set S C 13" and positive real number V E R
	The state of the s
	1 50 defre set is as flaw?
)	
,	YS = { z e 12 1 2 = YX, X E S}
)	
	TX is suphripheaton of vector X EIR's by salar Y EIR
	is set of all points by mytiplying i with yeaters x es
)	The state of the s
)	prove if s is convex, then is is convex set an well
D	prove 17 5 15 consect, their 15 15
)	(()) () () () () () ()
9	A set S C IR" is conex & YX, y & S, Y te [0,1]
)	5,t- (1-λ)x+ x= € € 5
)	and the second of the second o
	Assume 5 is convex, then
0	a nun-comply set
	15 = ZER/ Z = YX, XES 50 , FAS CIRT is
0	correct them
9	= 0-1/2 +ty=1x x ES vS is also correx set
10	=======================================
9	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
•	4) For given the run amply sets S1, S2 CIR", define S1 + S2 an
•	Follows: SIASZ= {ZERP 3 x E SI, 3y E Sz s.t. Z = x + y3
•	a) 31 = E(x1, x2) ER2 x1-1 =12 x2-2 ≤15 Sketch 51 + 52
	552 = (x1, x2) e x2 / 1x1/52 & 1x2/ 51
9	For Sz
	531x3- G52/1X1 53450 & 121-1X3-6-15/1-1X1 6-
0	125x=1= 1=1=1=============================
•	
	11515 1 25154 GUN 11 1547 61 61 XZ
	And 51452 = -2 = X1 = 4 for X1 0 = X2 = 4 for X2
0	The state of the s
9	51+52
•	5
	7-2 Ye
(9	X X X X X
	7 -1 6 x2 2 0