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	low	Dearch	low		Breasch	

Exercise 3.15 The signs of the reward are non in not important at an absolute scale but one important relatively That is, we can charge the value of the seward adding a large positive constant value to all servords This would not affect the value function However, if the eight of the sewards are invested, than the value function will change because then regarive rewards which were positive Yewards initially would mean that in the particular State, that action will not be preferred, when in fact it should be preferred Therefore, the signs is of the remards will only notter if they are not inverted for the value-function

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	We how, state-value function =>
	is described died dosper deid
	V_ (s)= Fx Gp S, = 5000 dil
	8-1 2-1 de la la col
	21 Sucos a confirmation, with a
2	= En En St = SN
	k=0 had tokth
	pow, if add a constant c to every reward =
	The state of the s
	V_ (c) = [
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120	Start Start Start Start
94	noved solver the work with shope become
HV.C.	1209 YOUNG DING STRONG STRONG OF MENT
White	Now the second term is clearly a correlat and
(V)	Now the second term is clearly a constant and here can be written as > VC = Ex[C S ex St = S] Line 1
i A	L L Cooker Control to the first
5	Marine VC = FILES St=S out endower
Con Charles	aster where one to be a second
	hao hao
	Now, we know 0 < 1 < 1 => & 1 = 1
	K=0 1-Y
and the same of th	>> VC = C(1)
1	1-4)

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	Therefore, we can work VIICs) =>
	νη(s) = Επ[(st = s] + Ve
	CONTRACTOR OF THE CONTRACTOR O
	V7(S)=0 V7(s)+Vc 1000000 1
	and the constant
A. A. A.	Therefore V'_(G) is a sun of VII (G) and a constant Ve. Thus, the relative values of all states under any policy servoir maffected
**	divition of the reading was allested
Card G	and beard open to the
	Consider 2 16
	Exercise 3.16
	For the case of an episodie tost, we know state-value
	Janction as =)
	VICS) = EIL (1 (St=S)
	The state of the s
_	have I denotes not of speps to terminal state
_	Line as in Exercise ()[=)
	on and we constant the
/ /	on odding constant c to all observes $V_{t}^{+}(s) = E_{t}^{-} \left[C_{t}^{+} \left[c_{t$
	Tf we write it in the form as in exercise 3.15=
<u> </u>	If we write it whomes
\sim	VIT(s) = VIT(s) + Ve whose =>
\sim	$V_{C} = E_{T} \left[\begin{array}{c} C \\ C \\ k = 0 \end{array} \right] C_{T} = C_{T} C_{$
	= CZ XN30
<u> </u>	REG (SunofaGP)
	= C =
ON	



