Assignment #06
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Section: BS((S)-9A
solution:
Let A be an event such that
Az plands were watered
and 13 be another event such that
Bz plants were not alive
Criven that
Probability plant died without water is given by P(B A') = 0.8
where A' = plants were not watered.
and probability plants died with water is given by
P(B/A) 2 0.15
A Comment of the comm
and probability that plants were watered
is given by
P(A)20.9
P(B) is the probibility plant died
pcBc) is the probility plant were aline
Now we have to find P(B()=7

in the transmostical
2/2)
PCB,) = 1 - b(B)
20-22 20 -20 -20 -20 -20 -20 -20 -20 -20
PCB) = P(B14) P(A') + P(B14) P(A)
1 0.0 1 0.0
Since p(A')=1-P(A)=1-0.9=0.1
putting values
P(B) = (0.8)(0.1) + (0.15)(0.9)
= 0.215
Now
P(B') = 1 - P(B)
= 1-0.215
= 10.785 ans
(b) Nov
probibility that plants were dead
because neighbours forgot to water it.
P(A'1B) = ?
P(A'1B) = P(BIVA'). P(A')
P(B)
pulting values
$P(A^{c} B) = 0.8 \times 0.1 = 16 = 0.372$ and.
$\frac{16}{0.215} = 0.372$ and