5,21 Let AMBIG = { (G) 16 is ambiguous (F.G) } Show AMBIG is undecidable Printites if timetin = biochin Iti, .. o tinain .. oa; canbe derived from TorB If a CFGGis ambiguous, some string x conse derived in multiple ways. y that does n't contain a; s. with 6's grammer one string in the form x can be derived by Tand B.
The Derivations are as follows 5-1 T-0 5 = tim out; a; and asm 5-1 B= 5 = bim out; a; and asm Therefore, time outs, = bim on bi, we get a match for P We have found: Phosa mutch + + 6 is ambiguous This reduction works, there fore AMBIC is un decidable