7,27 (ont Prove Correctness Dissatisticble + 6 Gis 3 coloureble for Prove it forwards Dissetisficble - 6 is 3 coloreble Also for each clause G= Carbuc) ctleast one member must be colored true, then the OR godget for Ge conbe 3 colored st output = True I proven 2 Gis 3 colourable + sctistible for cony Clause, it all members connut be false. Itso, the output of OR-gadget for C; his to be False but the output, is connected to Base and False there fore 12 Proven Both directions proven Therefore reduction proper Therefor 3 color; s NP complete