1) Define propositione as follows. ACN) 1 (Ang (A) => Ang (B) ] 1 Aug (A): A u an angel [Nor(A) => (Ang (B) V Nor(B))] NOT (A)' A is normal A(y): A said Yes A(n): A said No 21(6, ve) 24 1 & gines a unique sola: north) and A(N) we know 7 (Aug(A) 1 Aug(B)) 1 7 (Nor(A) 1 Nor(B)) 1 7(Ang(A) Nor(A)) (7(Ang(B) N Nor(B)).
Call three 2. A(4) > ZA(N). hence Ang(B). 2) A bit of parity checking, easy though. of A said Yes we have 3) Let the kui(A), kna (A) and Nov(A) be propositional variables. ACY) 1 [ Aug (A) => Norce) ] 1 We KNOW KNO(A) V KNO(A) V NOTCA) > Kni (A) (Nor (A) 1 tra(A)) 1 5 (1 CNOV(A) => (NOV(B) V Ang(B)) - Diejunction to show Kua (4) O ( ) N Nor(A) O ( ).
From what is given, speaking the /fale. 210, doce not give a unique estr (Kni (A) -> Kni (B)) 1 (Kna (A) -> 7 kni (B) 1 ? (Kni(b) -> Kna(A)) 1 (Kna(b) -> 7 Kna(A)). 5 1/2 (Aug (A), NOVCB) OL NOVCA), Aug (B) So we need to consider the case when A soil We have to deduce from 4 and 42 that 7km2(A) 1 knick) V 7km2(A) 1 7knick) V No. A told the abugut A lied, not a trater, not a kname

