7.20 Convert the following set of sentences to clausal form.

S1: $A \Leftrightarrow (B \vee E)$.

S2: $E \Rightarrow D$.

S3: $C \wedge F \Rightarrow \neg B$.

S4: $E \Rightarrow B$.

S5: $B \Rightarrow F$.

S6: $B \Rightarrow C$

Si: A BVE

(A→BVE) Λ (BVE > A)

=)("AV BVE)/ ("(BVE) VA)

(A VBVE) 1 (BAZ VA)

(CA VBVE) A (B VA) A (E VA)

S2 E7D

D END

St: CAF7B

(CAFI VB

(=) 7CV7FVB

54: E=7B

EV3

SS: B=F

@ BVF

S6 : B7C

Ø7BVC

('AVBVE) A(AV'B) A (AV'E) A('EVD) A(LV'BV'F) A('EVB) A('BVF) A('BV)

7.12 Use resolution to prove the sentence $\neg A \land \neg B$ from the clauses in Exercise 7.20.

7.20. ('AVBVE) ACAVB) A (AVE) A ('EVB) A (CV & V'F) M(EVB) A ("BVF) A ('BVL)

差 7Aハ7B不成三、ア 7(7Aハ7B) (コ AVB成至 後57:AVB

O AVB

() PrvC

@ AVB

0 'cv'b v}

3C

=) A

司作与广新

3 1/A VBVE => B/E

