I 
$$[(A \wedge B) \rightarrow C] \wedge B \wedge C' \rightarrow (A \rightarrow C)$$

I  $[(A \wedge B) \rightarrow C] \wedge B \wedge C' \qquad by \qquad by P.$ 
 $(A \rightarrow B \rightarrow C) \wedge B \wedge C' \qquad by \qquad ded.$ 
 $A \rightarrow (B \rightarrow C) \wedge B \wedge C' \qquad by \qquad asso$ 
 $A \rightarrow (C \wedge C') \qquad by \qquad n.p$ 
 $A \rightarrow 0 \qquad by \qquad neg.$ 
 $A \rightarrow (C \wedge 0) \qquad by \qquad close$ 
 $A \rightarrow (C \wedge 0) \qquad by \qquad simp.$ 

2.  $C(\alpha) = 1 \times 15 \quad q \quad Cat$ 
 $A(\alpha) \Rightarrow 15 \quad q \quad Cat$ 
 $A(\alpha) \Rightarrow 15 \quad q \quad qnimal$ 
 $A(\alpha) \Rightarrow 15 \quad q \quad qnim$ 

```
4.9) A= {5,8,11,14,17,20,23,26,29,33,35,38}
  6) \beta = \{-3/2, 1, 2\}
  C) (= {1,2,3,4,5,6,8,9,10,112,15,16,18,20,24,30,36,
      10,45,48,60,72,80,90,120,144,180,240,360,720}
 6. 5= 21,2,3,---,29,30}
    A= {1,2,3,--307 - {7,18,275
    B= { 5,10,15,20,25,30}
    (={3,6,9,12,15,18,21,24,27,30}
    a) /7 (A) / = 2124
    6) TAUBUCT = 30
    C) (BUC) - (Bnc)/
     BUC = {3, 5, 6, 9, 10, 12, 16, 18, 20, 21, 24, 25, 27, 30}
    1BUC/214
    1BnC/= 2
     14-2=12
```