9.2.15 Demonstrati inconsistenta urmatoarelor multimi de clauze utilizand rezolutia blocarii. Utilizati doua indexari diferite pentru literalii din clauze.

S={(2)¬p(x)∨ (1)q(x), (3)p(a), (5)¬ q(x) ∨(4)¬ r(x), (8)r(y)∨ (7)w(y)}

C1= (1)q(x) ∨ (2)¬p(x)

C2= (3)p(a)

C3= (4)¬ r(x) ∨ (5)¬ q(x)

C4= (6)¬ w(a),

C5=(7)w(y) ∨ (8)r(y)

C6 = Resθ(C1,C2) = (1)q(x)

θ=x a

C7 = Resq (C6,C3) = (4)¬ r(x)

C8 = Resλ (C7, C5)= (7)w(y)

λ = x y

C9 = Resξ (C8,C4) =

ξ =a y

=>inconsistenta(conf TCC)

C1= (1)¬p(x)∨ (4)q(x)

C2= (2)p(a)

C3= (3)¬ q(x) ∨(6)¬ r(x)

C4= (5)¬ w(a),

C5= (7)w(y) ∨ (8)r(y)

C6 = Resq (C1,C3) = (1)¬p(x) ∨(6)¬ r(x)

C7 = Resθ (C6,C2) = (6)¬ r(x)

θ=x a

C8 = Resλ (C7, C5)= (7)w(y)

λ =x y

C9 = Resξ (C8, C4) =

ξ= a y

=>inconsistenta(conf TCC)