Resolution in Tredicale Logic H ANTEND Exercise 3. Prove the inconsistency of the following set of clauses using lock resolution 2. S2 = { P(x) V 7 Q(x), T P(a) VR(x), Q(x), , W(2), TR(y) V TW(y) } Clauses: $C_1 = (2)^{P(x)} \vee (1)^{TQ(x)}$ C2 = (3) TP(a) V (4) R(X) $C_3 = _{(5)} Q(x)$ $C_{4} =_{(6)} W_{(2)}$ $C_5 = (8) 7 R(y) V_{(7)} 7 W(y)$ The following resolvents are obtained: $C_6 = \text{Res} \left(C_1, C_3\right) = P(x)$ $C_7 = \text{Res}_{Q_1} = [2 \leftarrow y] \left(C_4, C_5\right) = P(x)$ $C_8 = \text{Res}_{92} = [x \in a] (C_2, C_6) = (4) R(a)$

Cg=Resp3=Lyea] (C2, Cq)= D Conclusion; SL Res D and thus S is inconsistent			
Stock, Pr Res	to and	thus S is	Inconsistent