

f) ((Smoke 1 Heat) ⇒ Fire) ⇒ (Smoke ⇒ Fire) (¬(Smoke 1 Heat) ∨ Fire) ⇒ (¬Smoke ∨ Fire) 7 (7 (Smoke / Heat) v Fire) v (7 Smoke v Fire) STTTTFFFF HTTFFTTFF FTFTFTFTF PTTTFTTT g) (Smoke > Fire) => ((Smoke 1 Heat) > Fire) (15moke > Fire) => (7 (Smoke 1 Heat) > Fire) 7 (75 moke v Fire) v (7 (Smoke & Heat) v Fire) STTTTFFFF HTTFFTTFF Valid FTFTFTF .q.T.T.T.T.T.T.T. h) ((Smoke 1 Heat) => Fire) ((Smoke => Fire) v (Heat => Fire)) (7 (Smoke "Heat) v Fire) (1-5 make v Fire) v (7 Heat v Fire)) See next page

h) ((Smoke , Heat) = Fire) ((Smoke = Fire) v (Heat = Fire)) (-(Smoke + Heat) v Fire) (-(Smoke v Fire) v (-) Heat v Fire)) (7 (Smoke ^ Heat) v Fire) => ((7 Smoke v Fire) v (7 Heat v Fire)) ((7 Smoke v Fire) v (7 Heat v Fire)) => (7 (Smoke A Heat) v Fire) 7 (7 (Smoke A Heat) v Fire) v ((1 Smoke v Fire) v (7 Heat v Fire)) 7 ((7 Smoke v Fire) (7 Heat v Fire)) v (7 (Smoke 1 Heat) v Fire) Invatid Unsatisfiable TFTFTFTF FFFFFFFF