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Part (a)

The atomic Propositions are defined as

G: Ross wears green hat

4: Ross vears yellow sveater

T: Ross wears tie

B: Ross wears blue hat.

Story in propositional logic is:

2) (GAY) => 7T = 7 (GAY) V 7T (: a=15=14Vb)

= 76V7YV7T

3) 7 (4VS) => 76 = 7 (7(4VS)) V76 (:a=15=1aVB)

S => 4 = 75 VY (-: a => b = 7a Vb)

Thus D, D, D, B, Can be inferred from Story

Thus 3, 9, 9, 6 defines. TNYN76N5 Thus yesterday along with tie he wore yellow sweater (4) and socks (3). But he didn't wear green hat (4).