8.1.x. Exercise questions

1. Analyze the sentences below in as much detail as possible. For the most practice using existentials, avoid using universals in your analyses.

a. *Someone is missing*.
b. *No one found the loot*.
c. *There is a tavern in the town*.
d. *Some winner of the lottery has not come forward*.
e. *Tod watched a dance troop from India*.
f. *The search turned up no car fitting the description*.
g. *There is a button behind you that will open the door*.
h. *If Tom doesn't find anything, he'll be disappointed*.
i. *Al went to a restaurant no one he knew had heard of*.

2. Synthesize idiomatic English sentences that express the propositions associated with the logical forms below by the intensional interpretations that follow them.

a. ∃x Bx [B: λx (x *is burning*)]

b. (∃x: Px) Axd [A: λxy (x *is at* y); P: λx (x *is a person*); d: *the door*]

c. (∃x: Fx) Rtx [F: λx (x *is a fire*); R: λxy (x *reported* y); t: *Tamara*]

d. ¬ (∃x: Px ∧ Nxr) Kxs [K: λxy (x *knew* y); N: λxy (x *was in* y); r: *the room*; s: *Sam*]

e. (∃x: Vx) (Tvx ∧ Sx) [S: λx (x *shattered*); T: λxy (x *touched* y); V: λx (x *is a vase*); v: *Vic*]

f. ∃x (Hx ∧ Ljx) [H: λx (x *had happened*); L: λxy (x *left to deal with* y); j: *Jane*]

g. ∃x (Fax ∧ Rbx) [F: λxy (x *forgot* y); R: λxy (x *remembered* y); a: *Ann*; b: *Bill*]

h. (∃x: Fx ∧ Hx) Dix [D: λxy (x *detected* y); F: λx (x *was fast*); H: λx (x *was heavy*); i: *the instrument*]