

## 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.  $\exists x Bx$  [B:  $\lambda x$  (x *is burning*)]
  - b.  $(\exists x: Px) Axd$  [A:  $\lambda xy$  (x *is at* y); P:  $\lambda x$  (x *is a person*); d: *the door*]
  - c.  $(\exists x: Fx) Rtx$  [F:  $\lambda x$  (x *is a fire*); R:  $\lambda xy$  (x *reported* y); t: *Tamara*]
  - d.  $\neg (\exists x: Px \wedge Nxr) Kxs$  [K:  $\lambda xy$  (x *knew* y); N:  $\lambda xy$  (x *was in* y); r: *the room*; s: *Sam*]
  - e.  $(\exists x: Vx) (Tv_x \wedge Sx)$  [S:  $\lambda x$  (x *shattered*); T:  $\lambda xy$  (x *touched* y); V:  $\lambda x$  (x *is a vase*); v: *Vic*]
  - f.  $\exists x (Hx \wedge Ljx)$  [H:  $\lambda x$  (x *had happened*); L:  $\lambda xy$  (x *left to deal with* y); j: *Jane*]
  - g.  $\exists x (Fax \wedge Rbx)$  [F:  $\lambda xy$  (x *forgot* y); R:  $\lambda xy$  (x *remembered* y); a: *Ann*; b: *Bill*]
  - h.  $(\exists x: Fx \wedge Hx) Dix$  [D:  $\lambda xy$  (x *detected* y); F:  $\lambda x$  (x *was fast*); H:  $\lambda x$  (x *was heavy*); i: *the instrument*]