# 6.2.x. Exercise questions

**1.** Analyze each of the following sentences in as much detail as possible.

    **a.** *Reagan's vice president was the 41st president.*

    **b.** *Tom found a fly in his soup and he called the waiter.*

    **c.** *Tom found the book everyone had talked to him about and he bought a copy of it.*

    **d.** *Wabash College is located in Crawfordsville, which is the seat of Montgomery County.*

    **e.** *Sue and Tom set the date of their wedding but didn't decide on its location.*

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

    **a.** (Sab ∧ ¬ Sa(fc)) → ¬ b = fc
[S: λxy (x *has spoken to* y); f: λx (x*'s father*); a: *Ann*; b: *Bill*; c: *Carol*]

    **b.** (B(fa)(mb) ∨ S(ma)(fb)) → Cab
[B: λxy (x *is a brother of* y); C: λxy (x *and* y *are cross-cousins*); S: λxy (x *is a sister of* y); f: λx (x*'s father*); m: λx (x*'s mother*); a: *Ann*; b: *Bill*]

    **c.** Pab(m(sb)(sc)) ∧ Pac(m(sb)(sc))
[P: λxyz (x *persuaded* y *to accept* z); m: λxy (*the best compromise between* x *and* y); s: λx (x *'s proposal*); a: *Ann*; b: *Bill*; c: *Carol*]