Chapter Three Exercise Answers http://www-rohan.sdsu.edu/~gawron/semantics

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- a. Every possum was brown.
- b. John ate a sandwich.
- c. A young woman spoke
- d. Kerry filled all the gaps.e. Every guest thanked Jones.

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 \forall x [possum(x) \rightarrow brown(x)] 
\exists x [sandwich(x) \& eat(j, x)] 
\exists x [woman(x) \& young(x) \& speak(x)] 
\forall x [gap(x) \rightarrow fill(k, x)] 
\forall x [guest(x) \rightarrow thank(x, j)]
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- a. There was a black hat on the $\exists x [hat(x) \& black(x) \& bd.$ on(x, the bed)]
 - = A black hat was on the bed.
- b. All roads lead to Rome
- c. Utopia welcomes all travelers from Spain.
- d. Clive got murdered.
 - = Clive was murdered.
 - = Someone murdered Clive.
- e. Jones read every book in the $\forall x [(book(x))]$ library.

$$\forall x [road(x) \rightarrow lead-to(x, r)] \forall x [(traveler(x) \& from(x, s)) \rightarrow welcome(U, x)] \exists x [murder(x, c)]$$

$$\forall x [(book(x) \& in(x, library)) \rightarrow read(j, x)]$$

Breaking the sentence into two pieces

C. gave [NP every child] [NP either a bisc. or a $Bc]_z$ $[NP \text{ either a bisc. or a Bc}]_z$ C. gave [NP every child] z

either a biscuit or $\exists z [\text{biscuit}(z) \lor Bc(z)] \& \dots$ a batman comic Clive gave every $\forall x [child(x) \rightarrow give(c, z, x)]$ child z

1. $\exists z [[biscuit(z) \lor Bc(z)] \& \forall x [child(x) \rightarrow give(c, z, x)]]$ 2. $\forall x [child(x) \rightarrow \exists x [[biscuit(x) \lor Bc(z)] \& give(c, z, x)]]$

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 $\sim \exists x [business(x) \& like(x, sb)]$

Or if you think show business is a business and you think show business is like itself (and you don't think the semantics should be contradictory), then you think the sentence means something like *There's no business like show business* — except show business.

~ $\exists x [business(x) \& x \neq sb \& like(x, sb)]$