Homework 17: p.244; 5a-d;6

(5a) All horses are quadrupeds, but some quadrupeds are not horses
\( \forall x(\text{H}(x) \rightarrow \text{Q}(x)) \land \exists x(\text{Q}(x) \land \lnot \text{H}(x)) \)

(5b) Distinct utterances must have distinct phonemic transcriptions.
\( \forall x \forall y((\text{U}(x) \land \text{U}(y) \land x \neq y) \rightarrow \forall w \forall v((\text{T}(x,w) \land \text{T}(y,v)) \rightarrow w \neq v)) \)

(5c) Not all trees are deciduous
\( \lnot \forall x(\text{T}(x) \rightarrow \text{D}(x)) \)

(5d) Some politicians are honest men
\( \exists x(\text{P}(x) \land \text{H}(x)) \)

See the book for other answers