

## Exercises for 1.1 through 1.4

1. Which of the following are sentences in the sense used in this course?
  - (a) Who wants to live forever?
  - (b) I wonder whether anyone wants to live forever.
  - (c) Life might have existed on Mars.
  - (d) If God is dead, what is the point of morality?
  - (e) If it is true that God is dead, what is the point of morality?
  - (f) Can you close the window for me?
  - (g) I would like you to close the window.
  - (h) Please close the window.
2. Characterize each of the following as a compound of two atomic sentences (there might be multiple ways of doing it).
  - Some countries are resource rich and some other countries are resource poor.
  - Venus shares many characteristics with Earth but Venus is uninhabitable.
  - If you have taken PHIL60, then you have fulfilled the Area 5 requirement.
  - The Taj Mahal is a much admired architectural complex but some people consider it kitschy and some politicians claim that it does not represent Indian culture.
3. Sometimes a sentence that does not look like a compound sentence can be reformulated as a compound sentence. E.g., “Marie Curie was a Polish scientist” can be reformulated as “Marie Curie was Polish and Marie Curie was a scientist”. Turn each of the following into a compound sentence with two atomic sentences.
  - (a) Tokyo in the summer is hot and humid.
  - (b) Cuneiform was used to write Sumerian as well as Akkadian.
  - (c) The Holy Roman Empire was neither holy nor Roman.
  - (d) The culprit was the butler or the cook.

- (e) You can satisfy the Area 5 requirement by taking logic or by taking calculus.
4. State the truth conditions for  $\langle \text{neither } A \text{ nor } B \rangle$  in table form.
  5. State the truth conditions for  $\langle A \text{ but not } B \rangle$  in table form.