

Exercises to 2.3 *Immediate inferences*

(1) *What valid conclusions can be drawn from each of the following sentences by subalternation, conversion, obversion and contraposition?*

- 1) All tigers are mammals.
- 2) Some athletes are not professionals.
- 3) No metals are organic substances.
- 4) All pearl hunters are good swimmers.
- 5) Some drugs are not addictive substances.
- 6) Some university graduates are chess players.
- 7) No optimist is a person who knows life.
- 8) Some active opponents of the corporative tax raise are not members of the Chamber of Commerce.

(2) *Prove that the sentence "All socialists are pacifists" logically entails the following sentences.*

- 1) Some pacifists are not non-socialists.
- 2) Some non-pacifists are not socialists.

(3) *Prove that the sentence "No socialists are pacifists" logically entails the following sentences.*

- 1) Some socialists are non-pacifists.
- 2) Some pacifists are non-socialists.
- 3) Some non-pacifists are socialists.
- 4) Some non-socialists are not non-pacifists.