Instructions: Use the traditional square of opposition together with conversion, obversion, and contraposition to prove that the following immediate inferences are valid. Show each step in the deduction.

- 1. All insurance policies are cryptically written documents. Therefore, some cryptically written documents are insurance policies.
- 2. No gemstones that do not contain chromium are emeralds. Therefore, some stones that are not emeralds are not gemstones that contain Chromium.
- 3. It is false that some *Ficus benjaminas* are untemperamental house plants. Therefore, all Ficus benjaminas are temperamental house plants.
- 4. All exogenous morphines are addictive substances.

 Therefore, it is false that all addictive substances are endogenous morphines.
- 5. No people who do not advocate free-enterprise economics are fundamentalist Christians.

Therefore, it is false that some fundamentalist Christians are not people who advocate free-enterprise economics.

6. It is false that some Gothic cathedrals are buildings that do not feature pointed arches.

Therefore, some buildings that feature pointed arches are Gothic cathedrals.

- 7. Some people who recognize paranormal events are not non-scientists. Therefore, it is false that no scientists are people who recognize paranormal events.
- 8. It is false that no unhealthy things to ingest are food additives. Therefore, some food additives are not healthy things to ingest.
- 9. It is false that some illegal searches are not sobriety checkpoints. Therefore, some sobriety checkpoints are not legal searches.
- 10. It is false that some feminists are not advocates of equal pay for equal work. Therefore, it is false that all advocates of equal pay for equal work are nonfeminists.