

Exercises, Part I
Keith Burgess-Jackson

1. Suppose argument X has a false conclusion; what else, if anything, do you know about it, and why? Be thorough. By definition, no valid argument has both true premises and a false conclusion, so, if X's conclusion is false, then *either* X is invalid *or* X has a false premise (or both). Also, since all sound arguments have true conclusions and X has a false conclusion, X is unsound.

2. X has a true conclusion.

3. X has at least one false premise.

4. X has at least one true premise.

5. X has true premises (i.e., all of X's premises are true).

6. X has false premises (i.e., all of X's premises are false).

7. X is sound.

8. X is unsound.

9. X is valid.

10. X is invalid.

11. X is valid and has true premises.

12. X is valid and has false premises.

13. X is valid and has a false conclusion.

14. X is valid and has a true conclusion.

15. X is invalid and has true premises.

16. X is invalid and has at least one false premise.

17. X has true premises and a false conclusion.