Philosophy 109 – 05 Homework Assignment #1

For each of the statements below, state whether they are true or false. If they are false, provide a counter-example.

1. If an argument has a false conclusion it is invalid.
2. The moon is made of green cheese.
3. If an argument is unsound, then it doesn’t have a true conclusion.
4. If it is not possible for the conclusion of an argument to be false, then the argument is valid.
5. Every invalid argument has a false conclusion.
6. Some invalid arguments have a false conclusion.
7. All sound arguments are valid.
8. If two arguments have identical logical form, then either they are both valid or they are both invalid.
9. If an argument has true premises and a true conclusion, then it is sound.
10. If the conclusion of a valid argument is false, then at least one of its premises is false.
11. Some invalid arguments have a false premise.
12. No sound arguments have a false conclusion.
13. Some invalid arguments have a true conclusion.
14. Every invalid argument has a true conclusion.
15. A valid argument with twenty true premises and one false premise is more sound than an argument with three true premises and one false one.
16. Some unsound arguments have a false conclusion.
17. Some valid arguments are unsound.
18. If the conclusion of a valid argument is false, then all of its premises are false.
19. If the conclusion of a valid argument is true, the premises must be true as well.
20. If an argument is sound, then its conclusion follows from its premises.
21. All unsound arguments are invalid.
22. Some valid arguments have a true conclusion.
23. Every sound argument has a true conclusion.
24. The following is a valid sentential form:

If P, then Q

Q

Therefore, P

1. The following is an invalid sentential form:

Either P or Q

Therefore, P