Put the following arguments into standard form and omit anything that does not affect the validity of the argument or the truth of its premises.

1. Philadelphia is rich in history, but it is not now the capital of the United States, so the United States Congress must meet somewhere else.

2. Not everybody whom you invited is going to come to your party. Some of them won’t come. So this room should be big enough.

3. I know that my wife is at home, since I just called her there and spoke to her. We talked about our dinner plans.

4. I’m not sure, but Joseph is probably Jewish. Hence, he is a rabbi if he is a member of the clergy.

5. Some students could not concentrate on the lecture, because they did not eat lunch before class, although I did.

6. The most surprising news of all is that Johnson dropped out of the race because he thought his opponent was better qualified than he was for the office.

7. The Democrat is likely to win, since experts agree that more women sup-port him.

8. It seems to me that married people are happier, so marriage must be a good thing, or at least I think so.

Put the following arguments into standard form. Break up the premises and form chains of arguments wherever this can be done without distorting the argument. Then diagram the argument.

1. I know that Pat can’t be a father, because she is not a male. So she can’t be a grandfather either.

2. Either Jack is a fool or Mary is a crook, because she ended up with all of his money.

3. Our team can’t win this Saturday, both because they are not going to play, and because they are no good, so they wouldn’t win even if they did play.

4. Mercury is known to be the only metal that is liquid at room temperature, so a pound of mercury would be liquid in this room, which is at room temperature, and it would also conduct electricity, since all metals do. Therefore, some liquids do conduct electricity.

5. Since he won the lottery, he’s rich and lucky, so he’ll probably do well in the stock market, too, unless his luck runs out.

6. Joe is not a freshman, since he lives in a fraternity, and freshmen are not allowed to live in fraternities. He also can’t be a senior, since he has not declared a major, and every senior has declared a major. And he can’t be a junior, because I never met him before today, and I would have met him before now if he were a junior. So Joe must be a sophomore.

7. Since many newly emerging nations do not have the capital resources necessary for sustained growth, they will continue to need help from industrial nations to avoid mass starvation.

The following arguments depend for their validity on suppressed premises of various kinds. For each of them, list enough suppressed premises to make the argument valid and also to show why it is valid. This might require several suppressed premises of various kinds.

Example:

Carol has no sisters, because all her siblings are brothers.

Suppressed Premises:

A sister would be a sibling. A brother is not a sister.

1. Britney Spears is under age thirty-five. Therefore, she cannot run for president of the United States.

2. Nixon couldn’t have been president in 1950 because he was still in the Senate.

3. 81 is not a prime number, because 81 is divisible by 3.

4. There’s no patient named Rupert here; we have only female patients.

5. Columbus did not discover the New World because the Vikings explored Newfoundland centuries earlier.

6. There must not be any survivors, since they would have been found by now.

7. Lincoln could not have met Washington, because Washington was dead before Lincoln was born.

8. Philadelphia cannot play Los Angeles in the World Series, since they are both in the National League.

9. Mildred must be over forty-three, since she has a daughter who is thirty- six years old.

10. He cannot be a grandfather because he never had children.

11. That’s not modern poetry; you can understand it.

12. Harold can’t play in the Super Bowl, because he broke his leg.

13. Shaquille must be a basketball player, since he is so tall.

14. Dan is either stupid or very cunning, so he must be stupid.

15. Susan refuses to work on Sundays, which shows that she is lazy and inflexible.

16. Jim told me that Mary is a professor, so she can’t be a student, since professors must already have degrees.

17. This burglar alarm won’t work unless we are lucky or the burglar uses the front door, so we can’t count on it.

18. His natural talents were not enough; he still lost the match because he had not practiced sufficiently.