
a. Mr. Smith and his son Arthur were driving in a car. The car crashed and the father was killed and the son Arthur was rushed to the hospital, critically injured. The old surgeon took a look at him and said “I can’t operate on him; he is my son Arthur.” How do you explain this?

b. A train leaves from Boston to NYC. An hour later, another train leaves from NYC to Boston. The two trains are going at exactly the same speed. Which train will be nearer to Boston when they meet?

c. The Barber Paradox: Assume a barber of a small town shaved all the inhabitants of the town who did not shave themselves, and never shaved any inhabitant who shaved himself. The question is: whether or not the barber shaved himself?

d. Another paradox. Assume that a man has committed a crime punishable by death. He is to make a statement. If the statement is TRUE, then he is to be drowned; if the statement is FALSE, then he is to be hanged. What statement should be made to confound his executioners?