

Homework Solutions

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Exercise 6

- (a) Type I. It is more serious to believe that the electricity is off when it is really on because then you might touch a live wire and be electrocuted and die.
- (b) Type II. It is more serious to believe that the brakes work when, in fact, they do not work because then you might drive the car and have an accident and die.
- (c) Type I. It is more serious to believe that the snake is not poisonous when, in fact, it is poisonous because then you might try to pick it up and get bitten and die.
- (d) Type II. It is more serious to believe that it is safe to cross the street when, in fact, it is not safe because then you might try to cross the street, get hit by a car, and die.

Ok, Type I and Type II errors do not have to result in death to be serious. I was just trying to make a point.