

Course:Discrete Mathematics

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problem 22:

Write each of these statements in the form “if p , then q ” in English. [*Hint:* Refer to the list of common ways to express conditional statements provided in this section.]

- a) It is necessary to wash the boss’s car to get promoted.
- b) Winds from the south imply a spring thaw.
- c) A sufficient condition for the warranty to be good is that you bought the computer less than a year ago.
- d) Willy gets caught whenever he cheats.
- e) You can access the website only if you pay a subscription fee.
- f) Getting elected follows from knowing the right people.
- g) Carol gets seasick whenever she is on a boat.

Solution:

- a) If one washes the boss's car, then he gets promoted.
- b) If there is wind from the south, then it implies a spring thaw.
- c) If you bought the computer less than a year ago, then the warranty is good.
- d) If Willy cheats, then he gets caught.
- e) If you pay a subscription fee, then you can access the website.
- f) If one knows the right people, then he gets elected.
- g) If Carol is on a boat, then she gets seasick.