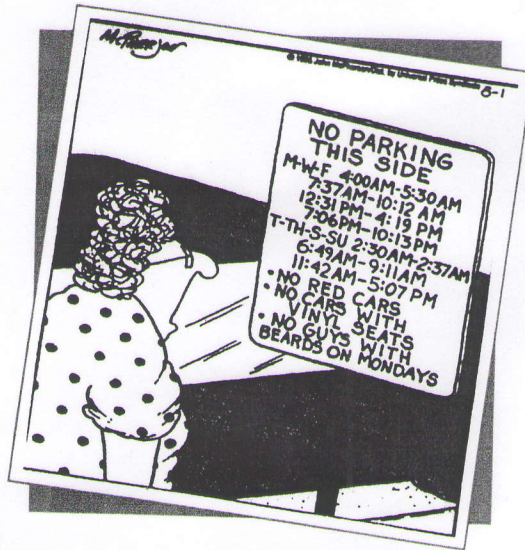


For each of the following, write the first statement as a conditional. If possible, use the Law of Detachment to make a conclusion. If not possible, write *not possible*.

22. All national parks are interesting.
Mammoth Cave is a national park.
23. **Weather** The temperature is always above 32°F in Key West, Florida.
The temperature is 62°F.
24. Every high school student likes music.
Ling likes music.
25. All squares are rectangles.
 $ABCD$ is a square.
26. **Writing** Give an example of a rule used in your school that could be written as a conditional. Explain how the Law of Detachment is used in applying that rule.

For Exercises 27–31, use the cartoon and deductive reasoning to answer *yes* or *no*. If *no*, explain.

27. Is a person with a red car allowed to park here on Tuesday at 10:00 A.M.?
28. Is a man with a beard allowed to park here on Monday at 10:30 A.M.?
29. Is a woman with a wig allowed to park here on Saturday at 10:00 A.M.?
30. Is a person with a blue car allowed to park here on Tuesday at 9:05 A.M.?
31. Is a person with a convertible with leather seats allowed to park here on Sunday at 6:00 P.M.?



32. **Reasoning** Assume that the following statements are true.

If Anita goes to the concert, Beth will go.

If Beth goes to the concert, Aisha will go.

If Aisha goes to the concert, Ramon will go.

Only two of the four students went to the concert. Who were they?