1) This example will help you do exercises 1-13 on pp. 103-4. Which of the following are statements?
   a) Today is Saturday.
   b) $5 < 7$
   c) Did you vote today?
   d) $2^{13,146,917} - 1$ is prime.
   e) Sit down.
   f) “All My Children” is a great TV program.

2) This example will help you do exercises 49-53 on p. 104. Translate each sentence to symbolic form if
   p: Bill is tall
   q: Maria is tall
   a) Bill is tall and Maria is tall.
   b) It is not true that both Bill and Maria are tall.
   c) Bill is not tall or Maria is not tall.

3) This example will help you do exercises 7-18 and 21-36 on p. 115. Let p represent a true statement and let q and r represent false statements. Find the truth value of
   $\sim [\sim r w (p v \sim q)]$.

4) This example will help you do exercises 45-57 on p. 116. Construct a truth table for each compound statement.
   a) $\sim (p w q)$
   b) $\sim p v \sim q$

5) This example will help you do exercises 61-64 on p. 116. Use DeMorgan’s Laws to write the negation of the following statement:
   It is not Thursday or Maria is late.

6) This example will help you do exercises 55-61 on p. 123. Construct a truth table for $(p \rightarrow q) v (q \rightarrow p)$

7) This example will help you do exercises 21-26 on p. 122 and exercises 45-50 on p. 133. Determine the truth value:
   a) $1 + 1 = 3 \rightarrow \sqrt{9} = 3$
   b) $1 + 1 = 3 \rightarrow \sqrt{9} = 4$
   c) 2 is odd if and only if Miami is in Broward county.

8) This example will help you do exercises 62-63 on p. 123. Construct a truth table for
   a) $p w \sim p$
   b) $\sim p \rightarrow q) \leftrightarrow [(p v q) w r]$

9) This example will help you do exercises 55-63 on p. 123. Which of the statements in the previous problem is a tautology?

10) This example will help you do exercises 13-24 and 27-34 on p. 147.
   a) If it is raining, then this is December. It is raining. Therefore, this is December.
   b) If you are a derf, then you are a gork. If you are not a gork, then you are a floozle. You are not a floozle. Therefore, you are not a derf.