Homework 6 covers materials in sections 6.5-6.8 of the textbook and Supplement 3. You need NOT turn in the homework. However, you are strongly advised to do it. Short solutions will be posted on the course website shortly. We encourage you to work collaboratively with your classmates to the degree that it facilitates your learning. The material covered by this homework applies to Quiz #4 on April 26.

Problems with a * have a solution available at the Prentice Hall Companion Website (http://www.prenhall.com/mano).

1. (ROM) Problem 6.11 in text.
2. (ROM) Problem 6.13 in text.
3. (ROM) Problem 6.14 in text.
4. (PLA) Problem 6.15 in text.
5. (PLA) Problem 6.17 in text.
6. (PAL) Problem 6.18 in text.
7. (PAL) Problem 6.19 in text.
8. (Static Hazards) a) Given a function $F$, find all static hazard locations and mark with a “diamond.”

```
A
B
C
D
```

b) Draw the logic gate circuit including the extra gates needed to eliminate the logic hazard in part a.

9. (Function Hazards) Indicate by double arrows the location of all function hazards in function $F$:

```
A
B
C
D
```

```