

**Solution to Exercise 14.** *b)* and *g)* are illegal because  $-a$  and  $7+a$ , respectively, are rvalues and the left operand of an assignment must be an lvalue. For the others, the parentheses are as follows.

$$a) \quad c = ((a+7) + (--b))$$

$$c) \quad c = (a = (-b))$$

$$d) \quad a - ((a/b) * b)$$

$$e) \quad b * ((++a) + b)$$

$$f) \quad a - (a * (+(-b)))$$

$$h) \quad (a + (3 * (--b))) + (a++) \quad i) \quad (b++) + (--a)$$

**Solution to Exercise 15.** *h)* induces unspecified behavior because it is not specified whether the increment of  $a$  happens before or after the first  $a$  is evaluated. The remaining expressions can be evaluated as follows.

$$a) \quad c = ((a+7) + (--b)) \rightarrow c = ((5+7) + 1) \rightarrow c = (12+1) \rightarrow c = 13 \rightarrow 13.$$

$$c) \quad c = (a = (-b)) \rightarrow c = (a = (-2)) \rightarrow c = (a = -2) \rightarrow c = -2 \rightarrow -2.$$

$$d) \quad a - ((a/b) * b) \rightarrow 5 - ((5/2) * 2) \rightarrow 5 - (2 * 2) \rightarrow 5 - (4) \rightarrow 1.$$