

**ERRORS IN THE "STUDENT SOLUTIONS MANUAL" OF  
THE LOGIC BOOK  
(CHAPTER 5)**

**p. 1**

(i) For the solution to exercise 5.1.1E(c), read

2-6  $\supset$ I

instead of

1-6  $\supset$ I

on line 7 of the derivation.

(ii) For the solution to exercise 5.1.1E(e), read

3, 4  $\supset$ E

instead of

3, 6  $\supset$ E

on line 7 of the derivation.

**p. 5**

The solutions to the unstarred exercises in Section 5.1.5E are missing altogether from the "Student Solutions Manual." They are as follows:

1a) line 1: Assumption  
line 2: 1, &E  
line 3: 1, &E  
line 4: A /  $\vee$ E  
line 5: 3, 4 &I  
line 6: 5,  $\vee$ I  
line 7: A /  $\vee$ E  
line 8: 3, 7 &I  
line 9: 8,  $\vee$ I  
line 10: 2, 4-6, 7-9  $\vee$ E

1c) line 1: Assumption  
line 2: A /  $\sim$ I  
line 3: 1, 2  $\supset$ E  
line 4: 3 &E  
line 5: 2R  
line 6: 2-5  $\sim$ I

1e) line 1: Assumption  
 line 2: Assumption  
 line 3: Assumption  
 line 4: Assumption  
 line 5: Assumption  
 line 6:  $A / I\supset$   
 line 7:  $2, 6 \supset E$   
 line 8:  $4, 7 \supset E$   
 line 9:  $8 \&E$   
 line 10:  $9 \vee I$   
 line 11:  $3, 10 \supset E$   
 line 12:  $A / \sim E$   
 line 13: 9R  
 line 14: 1R  
 line 15: 12-14  $\sim E$   
 line 16: 11, 15  $\&I$   
 line 17: 6-16  $I\supset$

1g) line 1: Assumption  
 line 2:  $A / \equiv I$   
 line 3:  $A / \sim E$   
 line 4:  $1 \&E$   
 line 5: 2R  
 line 6: 3-5  $\sim E$   
 line 7:  $A / \equiv I$   
 line 8:  $A / \sim E$   
 line 9: 7R  
 line 10:  $1 \&E$   
 line 11: 8-10  $\sim E$   
 line 12: 2-6, 7-11  $\equiv I$

2a) The mistake occurs at line 3. ' $\sim A$ ' is not the antecedent of ' $\sim\sim A \supset (B \& \sim D)$ '.

2c) The mistake occurs at line 7. The ' $A$ ' on line 4 of the derivation is not accessible at line 7 of the derivation.

**p. 11**

In the first derivation on p. 11 of Chap. 5 of the "Student Solutions Manual," read

5-11  $\sim E$

instead of

5-11  $\sim I$

on line 12 of the derivation.

**p. 12**

In the first derivation on p. 12 of Chap. 5 of the "Student Solutions Manual" the number '11' is skipped in the numbering of the lines. The line labeled '12' should be labeled '11', the line labeled '13' should be labeled '12', etc.

**p. 16**

In the second derivation on p. 16 of Chap. 5 of the "Student Solutions Manual," read

$2, 3 \supset E$

instead of

$2, 3 \supset I$

on line 4 of the derivation.

**p. 18**

In the third derivation on p. 18 of Chap. 5 of the "Student Solutions Manual," read

$1, 2-7, 8-13 \vee E$

instead of

$1, 2-6, 7-13 \vee E$

on line 14 of the derivation.

**p. 19**

(i) In the first derivation on p. 19 of Chap. 5 of the "Student Solutions Manual," read

$A / \sim E$

instead of

$A / \sim I$

on line 2 of the derivation.

(ii) In the same derivation, read

$A / \equiv I$

instead of

$A / \supset I$

on line 9 of the derivation.

**p. 27**

In the derivation on p. 27 of Chap. 5 of the “Student Solutions Manual,” the numbering of lines on the left skips ‘18’ and ‘19’. Read ‘18’ instead of ‘20’.