LOGIC: VERIFYING ARGUMENTS [PIRNOT 3.4]

(b) Is the argument valid?

EX 3.4.1: (a) What is the form of the following argument?

| | If my Internet connection is broken, then my day is ruined. | |
|----------------------|--|--|
| | My Internet connection is broken. | |
| | My day is ruined. | |
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| EX 3.4.2: (a) | What is the form of the following argument? (b) Is the argument valid? | |
| <u>EX 3.4.2.</u> (a) | what is the form of the following argument: (b) is the argument value: | |
| | If my Internet connection is broken, then my day is ruined. | |
| | My day is not ruined. | |
| | My Internet connection is not broken. | |
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| EX 3.4.3: (a) | What is the form of the following argument? (b) Is the argument valid? | |
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| | If my Internet connection is broken, then my day is ruined. | |
| | My day is ruined. | |
| | \therefore My Internet connection is broken. | |
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| EX 3.4.4: (a) | What is the form of the following argument? (b) Is the argument valid? | |
| | | |
| | Either I drove to Houston or I drove to Dallas. | |
| | I did not drive to Dallas. | |
| | ∴ I drove to Houston. | |
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| | | |
| DV 0 4 7 () | TV7 | |
| EX 3.4.5: (a) | What is the form of the following argument? (b) Is the argument valid? | |
| | If you Internat compaction is builting they are desired. | |
| | If my Internet connection is broken, then my day is ruined. My Internet connection is not broken. | |
| | ∴ My day is not ruined. | |
| | My day is not runed. | |
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EX 3.4.6: Using a truth table, determine whether the following argument is valid or invalid:

$$\begin{array}{c} \sim P \\ P \longrightarrow Q \\ \hline \vdots \sim Q \wedge P \end{array}$$

EX 3.4.7: Using a truth table, determine whether the following argument is valid or invalid:

$$R \longrightarrow Q$$

$$\sim P \lor \sim Q$$

$$\therefore \sim P$$