

►. Let  $P$  be the statement

Bella passed every assignment in Calculus I. (P)

Let  $Q$  be the statement

Bella received a grade of C or better in Calculus I. (Q)

The instructor made the statement  $P \implies Q$ . Recall the Truth Table for a conditional statement.

$P$	$Q$	$P \implies Q$	
T	T	T	Line 1
T	F	F	Line 2
F	T	T	Line 3
F	F	T	Line 4

For each scenario in the below parts, say

- whether the instructor lied or told the true
- which line number number (from the above Truth Table) the scenario corresponds.

**Justify** (as if you are explaining to a fellow confused student) your answer using complete sentences.

Recall the  $\pm$  grades: F (low), D-, D, D+, C-, C, C+, B-, B, B+, A-, A (high).

1. Suppose that Bella passed every assignment in Calculus I and received a grade of B-.
2. Suppose that Bella passed every assignment in Calculus I and received a grade of C-.
3. Suppose that Bella did not pass two assignments in Calculus I and received a grade of D.

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