**Section 1.10**

**Part One**

For each of the following pair of propositional statements, indicate whether you can conclude:

* p
* q
* ¬ p
* ¬ q
* No conclusion can be made
* **There is an error** in the pair of propositional statements

|  |  |  |  |
| --- | --- | --- | --- |
|  | Suppose that you know this and … | this | What new thing can you conclude? |
| 1 | p ∧ q | p |  |
| 2 | p ∨ q | p |  |
| 3 | p → q | p |  |
| 4 | p ∧ q | ¬ p |  |
| 5 | p ∨ q | ¬ p |  |
| 6 | p → q | ¬ p |  |
| 7 | p → q | q |  |
| 8 | p → q | ¬ q |  |