⋁∧∨⋀¬￢

1.

1.proposition, true

2.proposition, false

3. Proposition, false

4. Not

5. Proposition, true

6. Proposition, false

2.

1. True
2. False

3.

| p | q | P ⋀ ￢q |
| --- | --- | --- |
| t | t | f |
| t | f | t |
| f | t | f |
| f | f | f |

| p | q | p⋀q | ￢p⋁q | (p⋀q) ⋁ (￢p⋁q) |
| --- | --- | --- | --- | --- |
| t | t | t | t | t |
| t | f | f | f | f |
| f | t | f | t | t |
| f | f | f | t | t |

4.

1. Bill does not take mechanical engineering.
2. Bill takes mechanical engineering or Bill takes electrical engineering

5.

1. Today is not Tuesday and it is snowing or cold.

6.

1. ￢p
2. ￢p⋀ ￢q