Simulado.

| p | q | p v q |
| --- | --- | --- |
| f | f | f |

| p | q | p ^ q |
| --- | --- | --- |
| v | f | f |

| p | q | ~p | ~q | ~p ^ ~q |
| --- | --- | --- | --- | --- |
| v | f | f | v | f |

| p | q | ~p | ~q | p v ~q | ~p ^ (p v ~q) |
| --- | --- | --- | --- | --- | --- |
| v | f | f | v | v | f |

* 1. Resposta: f

| p | q | p ^ q |
| --- | --- | --- |
| v | v | v |
| v | f | f |

* 1. Resposta: f

| p | q | p v q |
| --- | --- | --- |
| f | v | v |
| f | f | f |

* 1. Resposta: v -> f = f
  2. Resposta: v -> f = f

| p | q | p -> q |
| --- | --- | --- |
| v | v | v |
| v | f | f |

| p | q | p <-> q |
| --- | --- | --- |
| v | v | v |
| v | f | f |

* 1. Resposta: f e f pois p v q = f
  2. Resposta: v e v pois p ^ q = v
  3. Tautologia

| q | r | q ^ r | q v r | q ^ r -> q v r |
| --- | --- | --- | --- | --- |
| v | v | v | v | v |
| v | f | f | v | v |
| f | v | f | v | v |
| f | f | f | f | v |

* 1. Contradição

| r | s | ~r | ~r -> s | r -> (~r -> s) | ~(r -> (~r -> s)) |
| --- | --- | --- | --- | --- | --- |
| v | v | f | v | v | f |
| v | f | f | v | v | f |
| f | v | v | v | v | f |
| f | f | v | f | v | f |

* 1. Hoje não é dia de avaliação
  2. Tem avaliação na Faculdade SENAC
  3. Chutar o pau da barraca não é permitido ou vou ser picado por mosquitos da dengue
  4. Chutar o pau da barraca é permitido, então não vou ser picado por mosquitos da dengue
  5. p ^ ~q
  6. p v q ^ q -> ~p
  7. q <-> p - errado
  8. p ^ q
  9. p v q
  10. ~p e ~q
  11. p -> q

| p | q | r | p ^ q | (p ^ q) -> r |
| --- | --- | --- | --- | --- |
| v | f | v | f | v |

| p | q | r | q v r | p ^ (q v r) |
| --- | --- | --- | --- | --- |
| v | f | v | v | v |

| p | q | p v q | p ^ (p v q) | p ^ (p v q) <-> p |
| --- | --- | --- | --- | --- |
| v | v | v | v | v |
| v | f | v | v | v |
| f | v | v | f | f |
| f | f | f | f | f |

* 1. errada

| p | q | p ^ V | p ^ V <-> p |
| --- | --- | --- | --- |
| v | v | v | v |
| v | f | f | f |
| f | v | f | v |
| f | f | f | v |

* 1. Não

| q | r | ~q | ~r | q v r | ~q -> ~r |
| --- | --- | --- | --- | --- | --- |
| v | v | f | f | v | v |
| v | f | f | v | v | v |
| f | v | v | f | v | f |
| f | f | v | v | f | v |

* 1. sim

| p | q | ~p | ~q | p v q | ~p ^ ~q |
| --- | --- | --- | --- | --- | --- |
| v | v | f | f | v | f |
| v | f | f | v | v | f |
| f | v | v | f | v | f |
| f | f | v | v | f | v |

| p | q | ~p | ~q | ~p v q | q -> (~p v q) |
| --- | --- | --- | --- | --- | --- |
| v | v | f | f | v | v |
| v | f | f | v | f | v |
| f | v | v | f | v | v |
| f | f | v | v | v | v |

| p | q | ~p | ~q | ~(p ^ ~q) | (~q v p) | ~(p ^ ~q) -> (~q v p) |
| --- | --- | --- | --- | --- | --- | --- |
| v | v | f | f | v | v | v |
| v | f | f | v | f | v | v |
| f | v | v | f | v | f | f |
| f | f | v | v | v | v | v |

1. Resposta: b
2. Resposta: c
3. Resposta: e errada