Test 3 Truth Trees

Answers to multiple choice on final slide. Solution to question 11 was done in class.

1. Is the following truth tree performed correctly?

√ p & q p q

- a. yes
- b. no

2. Is the following truth tree performed correctly?



a. yes b. no

3. Is the following truth tree performed correctly?



a. yes b. no 4. Is this truth tree performed correctly so far?

a. yes

b. no

c. yes, but it would be smarter to start with $\neg(p \& q)$

5. Is this truth tree performed correctly so far?



6. Is this truth tree performed correctly?



a. yes

b. no

ר (p → q) ∴ ¬q

 $(p \rightarrow q)$ ∴ ¬q v s

 $\neg(p \leftrightarrow q)$

.:. p v q

(p v q)ר p v קר ∴

On the back of your scantron, use the truth tree method to determine the validity of this argument. (5 pts.)

> p → (q v r) q → (s & t) ∴ ¬((p & ¬ t) & ¬r)

Answers

- 1. a
- 2. b
- 3.a
- 4.a
- **5**. b
- 6. b
- 7.a
- 8. a
- 9.a
- 10. a