

The truth table shows that $p \wedge (q \vee r)$ and $(p \wedge q) \vee (p \wedge r)$ always have the same truth values. Therefore they are logically equivalent. This proves the distributive law for \wedge over \vee .

24.

| p | q | r | $p \vee q$ | $p \wedge r$ | $(p \vee q) \vee (p \wedge r)$ | $(p \vee q) \wedge r$ |
|-----|-----|-----|------------|--------------|--------------------------------|-----------------------|
| T | T | T | T | T | T | T |
| T | T | F | T | F | T | F |
| T | F | T | T | T | T | T |
| T | F | F | T | F | T | F |
| F | T | T | T | F | T | T |
| F | T | F | T | F | T | F |
| F | F | T | F | F | F | F |
| F | F | F | F | F | F | F |

different truth values

The truth table shows that $(p \vee q) \vee (p \wedge r)$ and $(p \vee q) \wedge r$ have different truth values in rows 2, 3, and 6. Hence they are not logically equivalent.

26. Sam is not an orange belt or Kate is not a red belt.

28. The units digit of 4^{62} is not 4 and it is not 6.

29. This computer program does not have a logical error in the first ten lines and it is not being run with an incomplete data set.

30. The dollar is not at an all-time high or the stock market is not at a record low.

31. The train is not late and my watch is not fast.

33. $-10 \geq x$ or $x \geq 2$ 35. $x > -1$ and $x \leq 1$ 37. $0 \leq x$ or $x < -7$ 39. The statement's logical form is $(p \wedge q) \vee ((r \wedge s) \wedge t)$, so its negation has the form

$$\begin{aligned}
 \sim((p \wedge q) \vee ((r \wedge s) \wedge t)) &= \sim(p \wedge q) \wedge \sim((r \wedge s) \wedge t) \\
 &= (\sim p \vee \sim q) \wedge (\sim(r \wedge s) \vee \sim t) \\
 &= (\sim p \vee \sim q) \wedge ((\sim r \vee \sim s) \vee \sim t).
 \end{aligned}$$

Thus a negation is $(\text{num_orders} \geq 50 \text{ or } \text{num_instock} \leq 300) \text{ and } ((50 > \text{num_orders} \text{ or } \text{num_orders} \geq 75) \text{ or } \text{num_instock} \leq 500)$.

42.

| p | q | r | $\sim p$ | $\sim q$ | $\sim p \wedge q$ | $q \wedge r$ | $((\sim p \wedge q) \wedge (q \wedge r))$ | $((\sim p \wedge q) \wedge (q \wedge r)) \wedge \sim q$ |
|-----|-----|-----|----------|----------|-------------------|--------------|---|---|
| T | T | T | F | F | F | T | F | F |
| T | T | F | F | F | F | F | F | F |
| T | F | T | F | T | F | F | F | F |
| T | F | F | F | T | F | F | F | F |
| F | T | T | T | F | T | T | T | F |
| F | T | F | T | F | T | F | F | F |
| F | F | T | T | T | F | F | F | F |
| F | F | F | T | T | F | F | F | F |

all F's

Since all the truth values of $((\sim p \wedge q) \wedge (q \wedge r)) \wedge \sim q$ are F, $((\sim p \wedge q) \wedge (q \wedge r)) \wedge \sim q$ is a contradiction.

Discrete Mathematics With Applications 4th Solutions Manual

Neil Thomson



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