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^{67} 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

$$\sim ((p \wedge q) \vee ((r \wedge s) \wedge t)) \equiv \sim (p \wedge q) \wedge \sim ((r \wedge s) \wedge t))$$
$$\equiv (\sim p \vee \sim q) \wedge (\sim (r \wedge s) \vee \sim t))$$
$$\equiv (\sim p \vee \sim q) \wedge ((\sim r \vee \sim s) \vee \sim t)).$$

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

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Peipei Pang

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