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CS433 Q 1: Which of the following are propositional formulas?

☐ $(p \vee q)$

☐ p

☐ $(\neg p \mid = q)$

☐ $q \neg p$

Answer

Note: please be careful before submitting the answer. You will not be able to change the answers.

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CS433 Q 1: Which of the following are propositional formulas?

You have answered the following:

✓ $(p \vee q)$ (You are incorrect)
✓ p (You are correct)
✗ $(\neg p \mid = q)$ (You are correct)
✗ $q \neg p$ (You are correct)

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CS433 Q 2: Which of the following are valid formulas?

<input type="checkbox"/> $\exists x. (\perp)$
<input type="checkbox"/> $y > 10 \Rightarrow \forall x. (y > 0)$
<input type="checkbox"/> $x > 0 \Rightarrow x > 10$
<input type="checkbox"/> $x < 10 \oplus x \geq 10$

Answer

Note: please be careful before submitting the answer. You will not be able to change the answers.

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CS433 Q 2: Which of the following are valid formulas?

You have answered the following:

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CS433 Q 3: Which of the following formulas are in CNF?

<input type="checkbox"/> $\neg(p \wedge q)$
<input type="checkbox"/> $(p \wedge q) \wedge (\neg p \wedge q)$
<input type="checkbox"/> $(p \vee q) \vee (\neg p \vee q)$
<input type="checkbox"/> $(p \vee q) \wedge (\neg p \vee q)$

Answer

Note: please be careful before submitting the answer. You will not be able to change the answers.

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CS433 Q 3: Which of the following formulas are in CNF?

You have answered the following:

<div>✖ $\neg(p \wedge q)$ (You are correct)</div>
<div>✔ $(p \wedge q) \wedge (\neg p \wedge q)$ (You are correct)</div>
<div>✖ $(p \vee q) \vee (\neg p \vee q)$ (You are incorrect)</div>
<div>✔ $(p \vee q) \wedge (\neg p \vee q)$ (You are correct)</div>

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CS433 Q 4: Which of the following sentences are true about Tseitin's encoding and CNF?

☐ Ternary clauses must have exactly three literals.

☐ Tseitin's encoding causes quadratic blow up in formula size.

☐ Tseitin's encoding causes linear blow up in formula size.

☐ Ternary clauses must have exactly two literals.

Answer

Note: please be careful before submitting the answer. You will not be able to change the answers.

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CS433 Q 4: Which of the following sentences are true about Tseitin's encoding and CNF?

You have answered the following:

<div><div>✖</div><div>Ternary clauses must have exactly three literals. (You are incorrect)</div></div>
<div><div>✖</div><div>Tseitin's encoding causes quadratic blow up in formula size. (You are correct)</div></div>
<div><div>✔</div><div>Tseitin's encoding causes linear blow up in formula size. (You are correct)</div></div>
<div><div>✖</div><div>Ternary clauses must have exactly two literals. (You are correct)</div></div>

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