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CS433 Q 1: Which of the following simplications of Pseudo-boolean constraints are correct?

- [ ] $p1 - 2p2 \leq 0$ simplifies to $p1 + 2(\neg p2) \leq 2$
- [ ] $3p1 + 4p2 \leq 8$ simplifies to $\top$.
- [ ] $3p1 + 4p2 \leq 8$ simplifies to $\bot$.
- [ ] $p1 - 2p2 \leq 0$ simplifies to $p1 + 2p2 \leq 2$

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 simplications of Pseudo-boolean constraints are correct?

You have answered the following:

✔ p1 − 2p2 ≤ 0 simplifies to p1 + 2(¬p2) ≤ 2 (You are correct)
✔ 3p1 + 4p2 ≤ 8 simplifies to ⊤. (You are correct)
✘ 3p1 + 4p2 ≤ 8 simplifies to ⊥. (You are correct)
✘ p1 − 2p2 ≤ 0 simplifies to p1 + 2p2 ≤ 2 (You are correct)

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CS433 Q 2: Which of the following are true about the variables in the sudoku encoding?

- [ ] If v891 is true then v897 must be false
- [ ] If v694 is true then v984 must be false
- [ ] If v856 is true then v256 must be false
- [ ] If v121 is true then v124 must be false

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 true about the variables in the sudoku encoding?

You have answered the following:

✔ If v891 is true then v897 must be false (You are correct)
✘ If v694 is true then v984 must be false (You are correct)
✘ If v856 is true then v256 must be false (You are incorrect)
✔ If v121 is true then v124 must be false (You are correct)

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CS433 Q 3: Which of the following formulas are satisfiable?

- [ ] $x \neq f(x) \wedge x = y$
- [ ] $x \neq f(y) \wedge x = y$
- [ ] $f(x) \neq f(x)$
- [ ] $f(x) \neq f(z) \wedge x = y \wedge y \neq z$

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 satisfiable?

You have answered the following:

✘ $x \neq f(x) \wedge x = y$ (You are incorrect)
✔ $x \neq f(y) \wedge x = y$ (You are correct)
✘ $f(x) \neq f(x)$ (You are correct)
✔ $f(x) \neq f(z) \wedge x = y \wedge y \neq z$ (You are correct)

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CS433 Q 4: Consider formula F : (f4(a) = f2(a) ∧ f(a) = b ∧ f(b) ≠ a). After running the LazyEUF (F) which of the following are true statements? (fk means function f is applied k times. For example, f2(a) = f(f(a)))

- [ ] f3(a) and f4(a) does not belong to same equivalence class
- [ ] a and f(b) belong to same equivalence class
- [ ] a and b belong to same equivalence class
- [ ] f4(a) and f2(a) belong to same equivalence class

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: Consider formula F : (f4(a) = f2(a) ∧ f(a) = b ∧ f(b) ≠ a). After running the LazyEUF (F) which of the following are true statements? (fk means function f is applied k times. For example, f2(a) = f(f(a)))

You have answered the following:

✘ f3(a) and f4(a) does not belong to same equivalence class (You are incorrect)
✘ a and f(b) belong to same equivalence class (You are correct)
✘ a and b belong to same equivalence class (You are correct)
✔ f4(a) and f2(a) belong to same equivalence class (You are correct)

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