

Third Translation Exercise

Name:

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Translate the following English sentences into Propositional Logic. Use ">" for the horseshoe and "iff" for the triplebar. Use the following sentence letters in translating these sentences: A: Bush orders an air strike on Iraq; B: France protests in the U.N.; C: China protests in the U.N.; D: World opinion is divided; E: Russia sends troops to the Mideast; F: Iraq retaliates with chemical weapons; G: Oxy students lead the world's protest of war with Iraq; H: Oxy students join the Marines; I: The U.S. goes to war;

1. If Bush orders an air strike on Iraq, then both France and China will protest in the U.N.

2. If France doesn't protest in the U.N., then neither will China.

3. If Iraq retaliates with chemical weapons, then, if world opinion is not divided, Russia sends troops to the Mideast.

4. If the U.S. goes to war but Bush doesn't order an air strike on Iraq, then Oxy students will lead the world's protest of the war with Iraq just in case Oxy students don't join the Marines.

5. If neither China nor France protest in the U.N., then the U.S. goes to war if and only if Oxy students don't lead the world's protest of the war with Iraq.

6. If Oxy students don't lead the world's protest of the war with Iraq, then the U.S. goes to war, Bush orders an air strike on Iraq, France protests in the U.N., but Iraq does not retaliate with chemical weapons.

7. Oxy students join the Marines only if the U.S. goes to war.

8. Russia sending troops to the Mideast is a sufficient condition for Iraq retaliating with chemical weapons.

9. World opinion is divided unless Oxy students lead the world's protest of war with Iraq.

10. It's not the case that Oxy students don't join the Marines.