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Today NP-complete problems. §§ $7.\{5,*\}$.

Next class

Reminders Newsgroup. Posters and portfolios.

- 1. List the members of your group below. Underline your name.
- 2. Reduce the following SAT instance to a VERTEX-COVER instance using the reduction of Theorem 7.44: $(x \lor y \lor \bar{z}) \land (\bar{x} \lor \bar{y} \lor z) \land (x \lor \bar{y} \lor z) \land (\bar{x} \lor \bar{y} \lor \bar{z})$

Are the instances satisfiable? If so, depict corresponding solutions; otherwise explain why they are not satisfiable.

3. Repeat Question 2 with a reduction to CLIQUE (Theorem 7.32).

4.	l. Repeat Question 2 wi	ith a reduction to SUBSET-SUM (Theorem 7.56)).
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5.		ch: The class NP is closed under	
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5.	(a) complement.(b) union.	ch: The class NP is closed under	
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