Worksheet 9	
A&S100	
15 November	2002

Name:	

Consider a game of Nim with three piles. The first pile contains 3 pebbles, the second contains 5 pebbles, and the third contains 7 pebbles. There are two players who alternate removing one or more pebbles from exactly one of the piles. For example, Player One might remove 2 pebbles from the first pile. Player Two could then remove 5 pebbles from the third pile.

- 1. Create a game tree for this game of Nim.
- 2. Find all safe points in this game of Nim.
- 3. What is the outcome of the game if both players use optimal strategy?