

Name: _____

Pid: _____

1. (10 points) In the subtraction game with *two* piles where players may subtract 1, 2 or 5 chips on their turn, identify the N- and P-positions. (Please do not forget to prove correctness of your answer.)

2. Two players are put bishops on the chessboard one by one so that each new bishop is not attacked by the previously placed bishops. If a player cannot make a move, the player loses. Determine the winning strategy. *Use symmetric strategies.* (One bishop attack another if they are on the same diagonal.)