Combinatorics IEP HW

Student ID: Name: Score:

1. how many integer numbers from 1 to 10000 are not squares of integers or cubes of integers？

2. How many permutations of 1, 2, 3，……，9 have at least one odd number in its natural position?

3.

please calculate the number of integral solutions. (pg 171)

4. For the permutation P=P1 P2 P3 P4 of {1,2,3,4}, how many feasible permutations are there if we constrain that P1≠2，P2≠2、3， P3≠3、4， P4≠4? (4 points)