

Name: _____

Pid: _____

1. (10 points) Find a closed formula (no summation signs) for the expression $c(n, n - 3)$.

2. (10 points) Once upon a time Skeeve made a mistake and borrowed 1000 golden coins from Aahz. As you probably know, Aahz is very greedy, so he set the interest rate to be equal 10% per day. Every morning Skeeve pay 99 golden coins. Write a closed formula for Skeeve debt.

3. (10 points) In Durmstrang Institute every semester consists of two parts with two midterms in each of them. Find a closed formula for number of ways to organize semester if there are n days in this semester.