

## Homework

### Chapter 9 Viralizing Video Clips

1. (10 points) Suppose a new Youtube visitor (who has never been on the site before) watches 5 different videos, once each. How many videos will have a co-visitation count that changes? How many co-visitation counts will change in all?
2. (15 points) We are performing the “number-guessing” thought-experiment. As usual, at each step, a private signal is shown by the moderator and each player responds with a public action. With probability  $p$ , the private signal is the correct number and with probability  $1-p$ , the private signal is the incorrect number. What is the probability of starting a **correct** cascade after the release of the two public actions—in other words, what is the probability that both public actions are correct?