PHYS 391 - Day 11

Binomial Distribution

$$B_{n,p}(\nu) = \frac{n!}{\nu!(n-\nu)!} p^\nu (1-p)^{(n-\nu)}$$

n - number of trials
p - probability of success / trial

v - number of successes

Question

- Find the probability to roll 3 "sixes" on five (6-sided) dice

- Bonus: find the probability to roll three-of-a-kind on five dice (this should be easy)