

M362K Homework Assignment #2

Please, provide your complete solutions to the following problems. Final answers only, even if correct will earn zero points for those problems.

Problem 3.1. (10 points) Provide an example of an experiment where the *geometric distribution* would be an appropriate model. Do **not** repeat any of the examples from class such as cointosses and hitting a bull's eye.

Problem 3.2. ($3 \times 2 = 6$ points) Solve Problem **1.6.2** from the textbook (p.70).

Problem 3.3. (10 points) Solve Problem **1.6.4** from the textbook (p.71).

Problem 3.4. ($5 + 5 + 4 = 14$ points) Solve Problem **1.6.8** from the textbook (p.71).

Problem 3.5. ($8 + 2 = 10$ points) Solve Problem **1.Review.12** from Pitman (p.75).