

## In-Recitation Quiz (Cover Pset8)

Name: \_\_\_\_\_  
NetID: \_\_\_\_\_

Signature: \_\_\_\_\_  
RUID: \_\_\_\_\_

**Quiz Instructions:**

- Indicate your answer in the box provided. Answers indicated elsewhere will not be graded and receive a **zero** grade, irrespective of the correctness.
- **CREDIT** is only given for **CORRECT** answers and **NO PARTIAL CREDIT**.
- Simplify your answer as much as possible.

**Problem 3.8.5****Grade:**

Let  $X$  have the PMF

$$P_X(x) = \binom{4}{x} \left(\frac{1}{2}\right)^4.$$

Find  $\mathbb{P}(\mu_x - \sigma_x \leq X \leq \mu_X + \sigma_X)$ .

**Hint (Hint is not question. Answering hint does not yield credit):**

1. Which probability distribution does  $X$  follow?

Answers: