Quiz 6A

Name:

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Closed book/notes. Scientific calculators only. Correct answers and all work must be shown to receive full credit.

- 1. Suppose x has a uniform distribution on (1,9).
 - (a) (2 pts.) Find the height of the density curve. *Hint:* What is the density function?
 - (b) (3 pts.) Compute $P(x \le 7)$.
- 2. (5 pts.) Suppose x is a discrete random variable with the probability distribution shown below.

The mean is found to be $E(x) = \mu = 2.9$. Compute the standard deviation of x. Round your answer to three decimal places.

Formulas You May Need:

$$\sigma = \sqrt{\sum (x - \mu)^2 p(x)} = \sqrt{\sum_{x} \left[(x - \mu)^2 p(x) \right]}$$
 (1)

Grade: /10