



- c. Find the probability that the next customer will not arrive within the next 2 minutes.
- d. What is the expected time for the next customer to arrive at the window.?
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**Q3:** The length of time patients must wait to see a doctor at an emergency room in a large hospital is uniformly distributed between 40 minutes and 3 hours.

- a. What is the probability that a patient would have to wait between 50 minutes and two hours?

- b. What is the probability that a patient would have to wait exactly one hour?

- c. Find the variance of the waiting time.
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*With My Best Wishes*