

MTH 341 Probability Second Quiz Topics

1. Definition of Distribution function
 2. Required Properties of Distribution function
 3. Definition of probability (mass) function for discrete R.V.
 4. For a given distribution function (like assigned problem 5, 4.2 and example in book) calculate the following probabilities like $P(X=3)$, $P(X \leq 3)$, etc.
 5. Definition of expected value, second moment, variance, standard deviation of R.V., $E(X)$
 7. Properties of $E(X)$ and $\text{Var}(X)$ -- $E(aX) = \underline{\hspace{2cm}}$, $\text{Var}(aX) = \underline{\hspace{2cm}}$, etc.
- Apply to a problem.
8. Definition of a Bernoulli Random Variable, sequence of independent Bernoulli trials.