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Courses » Advanced Topics in Probability and Random Processes

Announcements **Course** Ask a Question Progress Mentor FAQ

## Unit 1 - How to access the portal

### Course outline

#### How to access the portal

- How to access the home page?
- How to access the course page?
- How to access the MCQ, MSQ and Programming assignments?
- Quiz : Assignment 0

#### Week 1: Introduction to probability and Random Variable

#### Week 2: Random process basics and infinite sequence of events

#### Week 3: Convergence of Sequence of Random Variables

#### Week 4: Applications of

### Assignment 0

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2018-08-05, 12:00 IST.**

1) Suppose  $A$  and  $B$  are two events in a sample space  $S$ . 1 point  
If  $P(A) = 0.6$  and  $P(B) = 0.6$ , the minimum and maximum possible values of  $P(A \cup B)$  are respectively

- 0 and 1
- 0.6 and 1
- 0.6 and 0.84
- 0 and 0.84

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*0.6 and 1*

2)  $X$  is a continuous random variable with the probability density function  $f_x(x) = ce^{-2|x|}$ ,  $-\infty < x < \infty$ . Then the value of  $c$  is 1 point

- 0.5
- 1
- 2
- 4

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*1*

3)  $X$  is a discrete random variable which takes values 0 and 1 only. If  $P(X = 0) = 0.6$ , 1 point  
then the average value of  $X$  is

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Time Markov Chain

Week 7: Continuous Time Markov Chain

Week 8: Martingale Process

New Unit

Assignment Solutions

No, the answer is incorrect.

Score: 0

Accepted Answers:

0.4

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