KFUPM

Electrical Engineering Department

EE-315

Quiz#3-121-1

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**Student Name: \_\_\_\_\_\_ ID# \_\_\_ \_\_\_\_\_\_ Serial**# \_ \_\_

Consider a random variable denoted by X with density function shown below.

0.5

3

1

Let Y be another random variable, where Y=4X+2.

Fill in the blanks.

|  |  |  |  |
| --- | --- | --- | --- |
| The mean of X,  (2 points) | The mean of Y,  (2 points) | The variance of X,  (3 points) | The variance of Y,  (3 points) |
|  |  |  |  |