Variable Aleatoria Connua

Función de densidad

# Ejercicio 1)

Sea 𝑋 una v.a. continua cuya función de densidad es la siguiente:

𝑓(𝑥) = {0.1𝑥 ,0 < 𝑥 <

0 ,𝑒n el resto

Se pide:

1. Obtener la probabilidad de que 𝑋 tome valores entre 1 y 3.

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1. Obtener la función de distribución 𝐹(𝑥)

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# Ejercicio 2)

Un gran almacén guarda cajas que contienen piezas de distinto tipo. La proporción X de piezas de tipo A en una caja se puede considerar una variable aleatoria con función de densidad:

𝑓(𝑥) = 𝑘𝑥(1 − 𝑥) con 0 ≤ x≤1

1. Calcular el valor de 𝑘.

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1. Calcular la media y varianza de 𝑋.

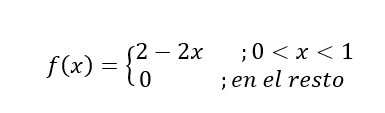
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# Ejercicio 3)

La función de densidad asociada a la producción de una máquina, en miles de unidades, es la siguiente:



1. Calcula la media y varianza de la producción.

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1. ¿Cuál es la probabilidad de que la producción sea inferior a 500 unidades? ¿Y la de que sea superior a 250 unidades?

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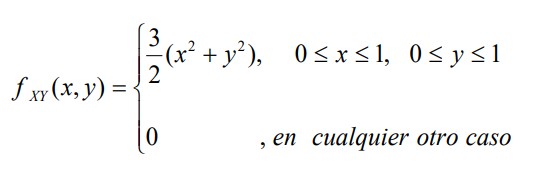

1. Si el beneficio (en miles de euros) de la máquina viene dado, en función de la producción, por 𝐵 = 9𝑋 − 2, calcule el valor esperado del beneficio.

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# Ejercicio 4)

La siguiente función de densidad, representa la atención a sus clientes de una tienda en línea que opera con 2 líneas telefónicas:



- X representa la proporción del día que la primera línea está en uso - Y representa la proporción del día que la segunda línea esté en uso.

¿Cuál es la proporción que se **espera** esté en uso la primera línea telefónica?

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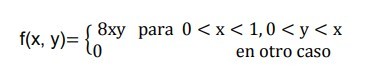

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# Ejercicio 5)

Suponga que el porcentaje **X** de alumnos y **Y** de alumnas que han concluido un examen de MAT302 se puede describir mediante la función densidad de probabilidad conjunta

(20):



1. Encuentre el porcentaje de alumnos que se espera concluyan el examen.

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**RESUMEN TEÓRICO Y FÓRMULAS:**

*Una variable aleatoria X es una función real, que asocia un valor numérico a cada evento del espacio muestral asociado a un cierto experimento aleatorio.*

**Variables Aleatorias Discretas:**

Si 𝑋𝑋 es una v.a. discreta con recorrido {𝑥𝑥1, 𝑥𝑥2, … , 𝑥𝑥𝑘𝑘}, su distribución de probabilidad puede escribirse como:

𝑓𝑓(𝑥𝑥𝑖𝑖) = 𝑃𝑃(𝑋𝑋 = 𝑥𝑥𝑖𝑖) = 𝑝𝑝𝑖𝑖 para 𝑖𝑖 = 1, 2, … , 𝑘𝑘

La función de probabilidad (o función de cuana o de masa de probabilidad) proporciona la candad de probabilidad que corresponde a cada valor de la v.a. discreta 𝑋𝑋. Las dos propiedades que debe cumplir una función real de variable real para ser función de probabilidad son:

1.  para 𝑖𝑖 = 1,2, … , 𝑘𝑘
2. 

La primera condición establece simplemente que las probabilidades no pueden ser negavas. La segunda condición nos dice que la suma de toda la masa de probabilidad debe ser igual a la unidad.

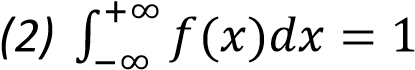
Una función de probabilidad puede expresarse de tres maneras disntas: una tabla en la que se recoja valor vs probabilidad, una expresión matemáca de la función 𝑓𝑓(𝑥𝑥), o una gráfica llamada Diagrama de Barras.

**Variables Aleatorias Connuas:**

En el caso de una v.a. connua, la distribución de probabilidad no puede darse para valores puntuales ya que ésta toma un número infinito no numerable de valores para un subconjunto de la recta real.

Los valores hay que agruparlos en intervalos *exhaustivos y mutuamente excluyentes*. A cada intervalo se le asignará una probabilidad y su representación gráfica será un **Histograma**. El área de cada rectángulo que ene por base un intervalo concreto será la probabilidad de que la variable tome valores en ese intervalo. Si hacemos una línea connua sobre el perfil de ese histograma, a esa línea (bajo la cual se encierra toda la masa de probabilidad), se le llama **función de densidad** de una v.a. connua. La función de densidad no proporciona directamente probabilidades, sino densidades de probabilidad, y el área bajo esa función es igual a la unidad. Propiedades:

*(1)*  , < 𝑥𝑥 *(implica que la densidad de probabilidad es positiva)*

*(implica que el área bajo la curva y por encima del eje de*

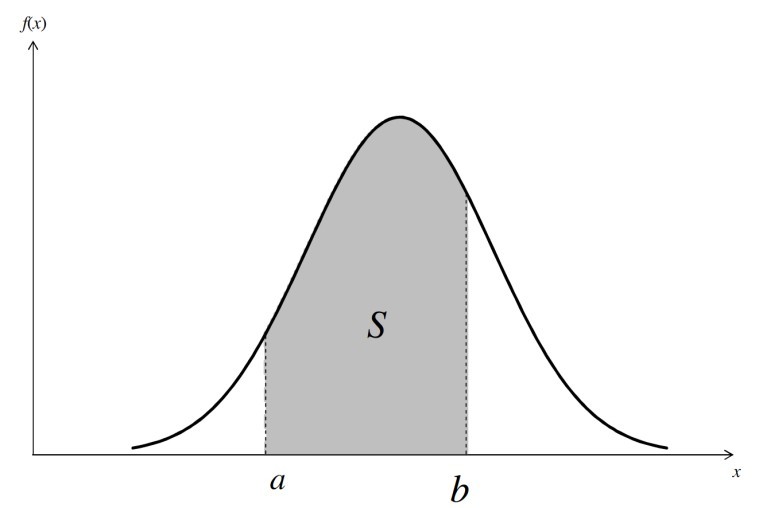
*abscisas es igual a la unidad)*

Obtención a parr de la 𝑓𝑓(𝑥𝑥) de la probabilidad de que 𝑋𝑋 tome valores dentro de un determinado intervalo [𝑎𝑎, 𝑏𝑏]:

𝑏𝑏

𝑃𝑃𝑑𝑑𝑥𝑥 = 𝑆𝑆

𝑎𝑎



**IMPORTANTE:** La probabilidad de que una v.a. connua tome un valor concreto es siempre cero:

𝑥𝑥𝑖𝑖

𝑃𝑃(𝑋𝑋 = 𝑥𝑥𝑑𝑑𝑥𝑥 = 0

𝑥𝑥𝑖𝑖

Por tanto, para este po de variables, se cumplen las siguientes igualdades:

𝑃𝑃(𝑋𝑋 < 𝑎𝑎) = 

𝑏𝑏

𝑃𝑃(𝑎𝑎 < 𝑋𝑋 (𝑎𝑎 < 𝑋𝑋 < 𝑑𝑑𝑥𝑥

𝑎𝑎

**Función de Distribución:**

Para una v.a. 𝑋𝑋 (discreta o connua) la función de distribución, 𝐹𝐹(𝑋𝑋) es la función que da la probabilidad acumulada hasta el punto 𝑥𝑥:

𝐹𝐹

Propiedades:

1. 
2. 
3. Es una función monótona no decreciente.
4. 𝑃𝑃(𝑎𝑎 < 𝑋𝑋(𝑏𝑏) − 𝐹𝐹(𝑎𝑎)

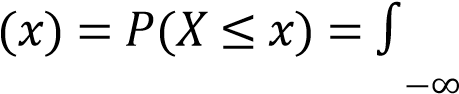
* **Si** 𝑿𝑿 **es una v.a. discreta:**

𝐹𝐹

𝑥𝑥𝑖𝑖

* **Si** 𝑿𝑿 **es una v.a. connua:**

𝑥𝑥

 𝐹𝐹 𝑑𝑑𝑟𝑟

*[En el integrando se utiliza t en lugar de x para que no haya confusión con el límite superior de integración.]*

Cuando lo que se quiere es calcular la probabilidad de que una variable tome valores dentro de un intervalo, entonces haremos uso de integrales definidas ya que:

𝑏𝑏

𝑃𝑃𝑑𝑑𝑥𝑥 = 𝐹𝐹(𝑏𝑏) − 𝐹𝐹(𝑎𝑎)

𝑎𝑎

La función de densidad de una v.a. connua se puede hallar derivando la función de distribución:

𝑑𝑑𝐹𝐹(𝑥𝑥)

𝑓𝑓(𝑥𝑥) =

𝑑𝑑𝑥𝑥

**Propiedades y caracteríscas de Variables Aleatorias:**

1. Cualquier función de una v.a. es otra v.a. que “hereda” las propiedades probabilíscas de la variable original.
2. Esperanza Matemáca o Valor Esperado:
   * Discreta:

𝐸𝐸) = 𝜇𝜇

𝑥𝑥

* + Connua:

𝐸𝐸𝑑𝑑𝑥𝑥 = 𝜇𝜇

𝑥𝑥

* + Propiedades del Valor Esperado:
    - Si 𝑎𝑎 es una constante: 𝐸𝐸) = 𝑎𝑎 o 𝐸𝐸(𝑎𝑎 + 𝑋𝑋) = 𝑎𝑎 + 𝐸𝐸(𝑋𝑋) o 𝐸𝐸) = 𝑏𝑏𝐸𝐸) o 𝐸𝐸(𝑎𝑎 + 𝑏𝑏𝑋𝑋) = 𝑎𝑎 +

𝑏𝑏𝐸𝐸(𝑋𝑋) o Si 𝑎𝑎 , entonces 𝑎𝑎 o Si

𝑋𝑋 e 𝑌𝑌 son dos v.a.: 𝐸𝐸(𝑋𝑋 + 𝑌𝑌) = 

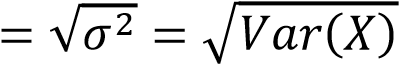
1. Varianza, desviación pica y coeficiente de variación:
   * Fórmula en base al valor esperado:

𝑉𝑉𝑎𝑎𝑟𝑟(𝑋𝑋) = 𝐸𝐸[(𝑋𝑋 − 𝜇𝜇)2] = 𝜎𝜎2, donde 𝜇𝜇 = 𝐸𝐸(𝑋𝑋).

* + Propiedades de la varianza:
    - Si 𝑎𝑎 es una constante: 𝑉𝑉𝑎𝑎𝑟𝑟(𝑎𝑎) = 0 o 𝑉𝑉𝑎𝑎𝑟𝑟(𝑎𝑎 + 𝑋𝑋) =

𝑉𝑉𝑎𝑎𝑟𝑟(𝑋𝑋) o 𝑉𝑉𝑎𝑎𝑟𝑟(𝑏𝑏𝑋𝑋) = 𝑏𝑏2𝑉𝑉𝑎𝑎𝑟𝑟(𝑋𝑋) o 𝑉𝑉𝑎𝑎𝑟𝑟(𝑎𝑎 + 𝑏𝑏𝑋𝑋)

= 𝑏𝑏2𝑉𝑉𝑎𝑎𝑟𝑟(𝑋𝑋) o 𝑉𝑉𝑎𝑎𝑟𝑟(−𝑋𝑋) = 𝑉𝑉𝑎𝑎𝑟𝑟(𝑋𝑋)

* + Desviación pica: o 𝜎𝜎 
  + Coeficiente de variación:

𝜎𝜎

* + - 𝐶𝐶𝑉𝑉 = | 𝜇𝜇|

1. Tipificación de una variable aleatoria:

Sea 𝑋𝑋 una v.a. cualquiera con esperanza igual a 𝜇𝜇𝑋𝑋 y varianza igual a 𝜎𝜎𝑋𝑋2, diremos que 𝑍𝑍 es la variable pificada de 𝑋𝑋 si es igual a:

𝑋𝑋 − 𝜇𝜇𝑋𝑋

𝑍𝑍 =

𝜎𝜎𝑋𝑋

Propiedades de 𝑍𝑍: a) 𝐸𝐸(𝑍𝑍) = 0

b) 𝑉𝑉𝑎𝑎𝑟𝑟(𝑋𝑋) = 1