Guien PDF

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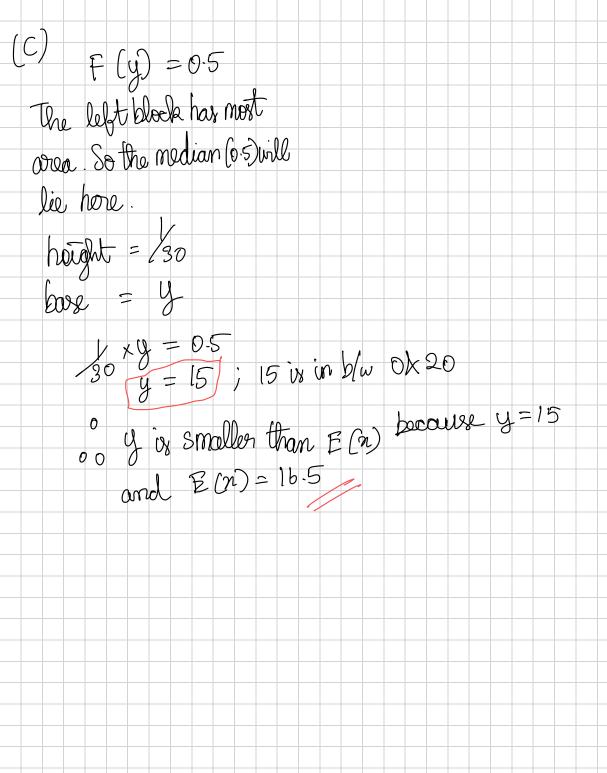
$$\begin{cases}
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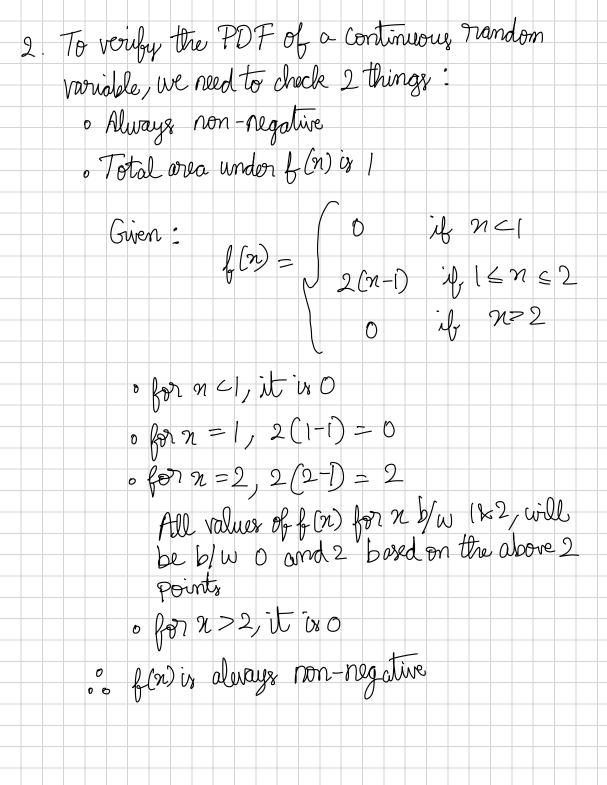
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to calculate the Expected value we need to Calculate the expected values of individual rectargly and add them up. Left Rectangle orea $= 20 \times \frac{1}{30} = 0.66$ Right Rectangle wea = 20 x to = 0.33 o 2/3 of the time we have a uniform (0,20) with an average of 10 o /3rd of the time we have a uniform (20,40) with an average of 30 Overall expected value = $(0.66 \times 10) + (0.33 \times 30) = 6.6 + 9.9$ E(n) = 16.5





$$\int_{1}^{2} 2(n-1) \cdot dn = 2 \int_{1}^{2} n - 1 \cdot dn$$

$$= 2 \int_{1}^{2} n - \int_{1}^{2} \cdot dn = 2 \int_{1}^{2} \left[\frac{n^{2}}{2} \right]_{1}^{2} - \left[\frac{n}{2} \right]_{1}^{2}$$

$$= 2 \left[\frac{4}{2} - \frac{1}{2} \right] - \left[2 - 1 \right] = 2 \left[2 - 0.5 - 1 \right]$$

$$= 2 \left[0.5 \right] = 1$$

$$= 2 \left[0.5 \right] = 1$$

$$= 2 \left[0.5 \right] = 1$$

$$= 2 \left[(n) \text{ is always non-negative and total orea under} \right]$$

$$= \left[(n) \text{ is always non-negative and total orea under} \right]$$

P/15 4 X2 1.75

.53 -1-125

0.31

$$2\left(\begin{array}{c}n^{2}\\2\end{array}\right)\left(\begin{array}{c}n\\2\end{array}\right)\left(\begin{array}{c}n\\3\end{array}\right)$$

$$\begin{array}{c|c}
2 & \begin{pmatrix} n^2 \\ 2 \end{pmatrix} & \begin{pmatrix} 1 \\ 5 \end{pmatrix} \\
2 & \begin{pmatrix} 1 \\ 1 \end{pmatrix} & \begin{pmatrix} 1 \\ 5 \end{pmatrix} & \begin{pmatrix} 1 \\ 1 \end{pmatrix} & \begin{pmatrix} 1 \\ 5 \end{pmatrix} & \begin{pmatrix} 1 \\ 1 \end{pmatrix} & \begin{pmatrix} 1 \\ 5 \end{pmatrix} & \begin{pmatrix} 1 \\ 1 \end{pmatrix} & \begin{pmatrix} 1 \\ 5 \end{pmatrix} & \begin{pmatrix} 1 \\ 1 \end{pmatrix} & \begin{pmatrix} 1 \\ 5 \end{pmatrix} & \begin{pmatrix} 1 \\ 1 \end{pmatrix} & \begin{pmatrix} 1 \\ 5 \end{pmatrix} & \begin{pmatrix} 1 \\ 1 \end{pmatrix} & \begin{pmatrix} 1 \\ 5 \end{pmatrix} & \begin{pmatrix} 1 \\ 1 \end{pmatrix} & \begin{pmatrix} 1 \\ 5 \end{pmatrix} & \begin{pmatrix} 1 \\ 5 \end{pmatrix} & \begin{pmatrix} 1 \\ 1 \end{pmatrix} & \begin{pmatrix} 1 \\ 5 \end{pmatrix}$$

(c)
$$\mu = \mu_1 + \mu_2$$
 $120 + 120 = 240$

National = $51^2 + 52^2$
 $2 = 20^2 + 20^2 = 800$
 $3 = 28.284$
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4. Given 2 normal independent random variables X,~ Normal (1,9) and X2~ Normal (3,16) The mean and variance of X1+X2 will equal sum of mean and sum of variance respectively. (a) X1+X2 mean = 1+3=4 variance = 9+16=25 $(b) + X_2$ variance = 16; because $\sigma^2 = -4^2$ (C) X1-X2 This will be same as (a) except we have to subtract mlan = 1-3 = -2Variance = $-\frac{2}{12} - \frac{2}{2} = (-3)^2 + (-4)^2 = 9 + 16 = 25$ Because variance connot be-ve

(d)
$$2 \times 1$$

This is same as writing $\times 1 + \times 1$

or mean = $2(1) = 2$

variance = $(2 \cdot 3)^2 = b^2 = 3b$

(e) $2 \times 1 - 2 = 2$

Normal $(2 \cdot 3)^2 = b^2 = 3b$
 $2 \times 2 - 2 = 2$

variance = $(2 \cdot 4)^2 = 8^2 = 64$
 $2 \times 1 - 2 \times 2 = 26 = 4$

variance = $(2 \cdot 4)^2 = 8^2 = 64$
 $2 \times 1 - 2 \times 2 = 26 = 4$

variance = $(2 \cdot 4)^2 = 8^2 = 64$
 $2 \times 1 - 2 \times 2 = 26 = 4$

variance = $(2 \cdot 4)^2 = 8^2 = 64$

CDF ('o)
$$y < 0$$
 $0 < y < 1$
 $0 < y < 1$
 $0 < y < 1$
 $0 < y < 2$
 $0 < 0 < y < 0$
 $0 < 0 < y < 1$
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(c)
$$E(n) = \int n \cdot f(n) \, dn$$

$$= \int 0 \cdot 1 \cdot n \cdot dn + \int 0 \cdot 2 \cdot n \cdot dn + \int 0 \cdot 4 \cdot n \cdot dn + \int 0 \cdot 3 \cdot n \cdot dn$$

$$= 0 \cdot 1 \cdot \left[\frac{23}{2} \right]_{0}^{1} + 0 \cdot 2 \cdot \left[\frac{2}{2} \right]_{1}^{2} + 0 \cdot 4 \cdot \left[\frac{2}{4 \cdot 5} - 2 \right] + 0 \cdot 3 \cdot \left[\frac{2}{2} - 4 \cdot 5 \right]$$

$$= 0 \cdot 1 \cdot \left[\frac{1}{2} \right]_{0}^{2} + 0 \cdot 2 \cdot \left[\frac{2}{2} - 0 \cdot 5 \right]_{1}^{2} + 0 \cdot 4 \cdot \left[\frac{4}{4 \cdot 5} - 2 \right] + 0 \cdot 3 \cdot \left[\frac{2}{4} - 4 \cdot 5 \right]$$

$$= 0 \cdot 1 \cdot \left[\frac{1}{2} \right]_{0}^{2} + 0 \cdot 2 \cdot \left[\frac{2}{2} - 0 \cdot 5 \right]_{1}^{2} + 0 \cdot 4 \cdot \left[\frac{4}{4 \cdot 5} - 2 \right] + 0 \cdot 3 \cdot \left[\frac{2}{4} - 4 \cdot 5 \right]$$

$$= 0 \cdot 1 \cdot \left[\frac{1}{2} \right]_{1}^{2} + 0 \cdot 2 \cdot \left[\frac{2}{2} - 0 \cdot 5 \right]_{1}^{2} + 0 \cdot 4 \cdot \left[\frac{4}{4 \cdot 5} - 2 \right] + 0 \cdot 3 \cdot \left[\frac{2}{4} - 4 \cdot 5 \right]$$

$$= 0 \cdot 1 \cdot \left[\frac{1}{2} \right]_{1}^{2} + 0 \cdot 2 \cdot \left[\frac{2}{2} - 0 \cdot 5 \right]_{1}^{2} + 0 \cdot 4 \cdot \left[\frac{4}{4 \cdot 5} - 2 \right] + 0 \cdot 3 \cdot \left[\frac{2}{4} - 4 \cdot 5 \right]$$

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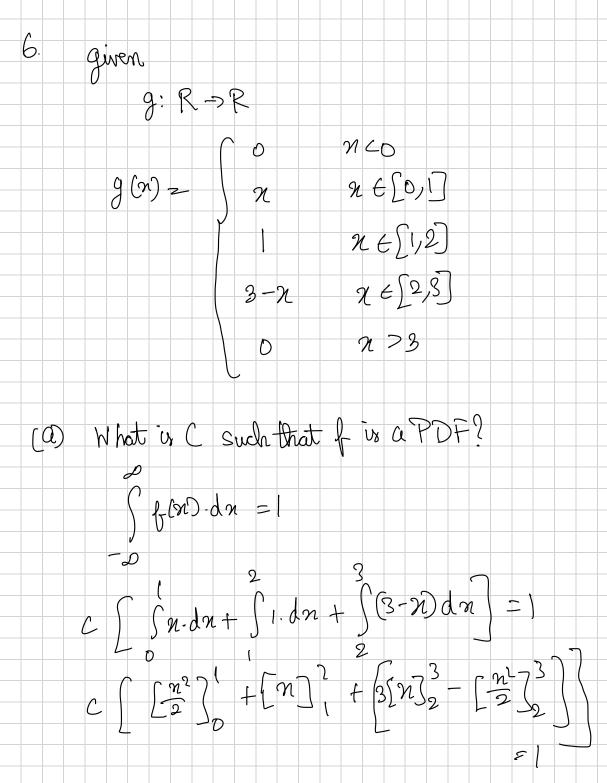
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$$= 0 \cdot 1 \cdot \left[\frac{2}{4} - 3 \cdot 5 \right]$$

$$= 0 \cdot 1 \cdot \left$$



$$\Rightarrow C\left(\frac{1}{2}\right)^{2} + 2 + \left(3 - \frac{3^{2}}{2} - \frac{2^{2}}{2}\right)^{2} = 1$$

$$\Rightarrow C\left(\frac{1}{2} + 1 + \frac{1}{2}\right) = 1$$

$$2C = 1 \Rightarrow C = 0.5$$

$$2C = 1 \Rightarrow C = 0.5$$

$$2 \Rightarrow C = 0.5$$

$$1.5 \Rightarrow 2.0$$

$$1.5 \Rightarrow 2.0$$

$$1.5 \Rightarrow 2.0$$

(c)
$$E(n) = \int n \cdot f(n) \cdot dn$$

 $\Rightarrow \int o \cdot 5n^2 + \int o \cdot 5n \cdot dn + \int o \cdot 5n(3-n) \cdot dn$
 $E(n) = 0 \cdot 5 \cdot \binom{n^3}{3} + 0 \cdot 5 \cdot \binom{n^2}{2} + 0 \cdot 5 \cdot \binom{n^3}{3} \cdot \binom{n^3}{2} = \frac{n^3}{3} \cdot \binom{n^3}{3} = \frac{n^3}{3} = \frac{n^3}{3} \cdot \binom{n^3}{3} = \frac{n^3}{3} = \frac{n^3}{3}$

(e)
$$P(2) = F(1) + \int_{0.5}^{2} dn$$

 $F(2) = 0.25 + 0.5(1)$
 $F(2) = 0.75$
 $\int_{2}^{2} 0.5 \times (3-2) dn = 0.5 \int_{2}^{2} 3.dn - \int_{2}^{2} n dn$
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