

5. Suppose a continuous random variable  $X$  has density function,

$$f(x) = \begin{cases} k(1-x^2) & \text{for } 0 < x < 1 \\ 0, & \text{elsewhere} \end{cases}$$

- i) Find  $k$   
 ii) Find  $P(0.1 < x < 0.2)$   
 iii)  $P(x > 0.5)$ .

6. Find mean and variance of a continuous random variable  $X$  where density function is given by

$$f(x) = \begin{cases} \frac{1}{4}e^{-x/2}, & \text{for } x > 0 \\ 0, & \text{otherwise} \end{cases}$$

7. Find the Fourier series for  $f(x) = \begin{cases} -x, & -\pi < x < 0 \\ x, & 0 < x < \pi \end{cases}$

and deduce that  $\frac{1}{1^2} + \frac{1}{3^2} + \frac{1}{5^2} + \dots = \frac{\pi^2}{8}$

8. a) Explain Poisson and Normal distribution.  
 b) Fit a second degree parabola to the following data:

$x:$	0	1	2	3	4
$y:$	1	1.8	1.3	2.5	6.3

\*\*\*\*\*

# Question Paper Discrete Mathematics 1 Semester

**RM Cervero**



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