

## Mathematics

- Q.1** A line passes through the point  $P(h, k)$  is parallel to the  $x$ -axis. It forms a triangle with the lines  $y = x$  &  $x + y = 2$  of area  $4h^2$  then find the locus of  $P$ . [2]

**Sol.** On solving the lines we get  $S$  &  $R$  points.

$$S : (2 - k, k) \quad R : (k, k)$$

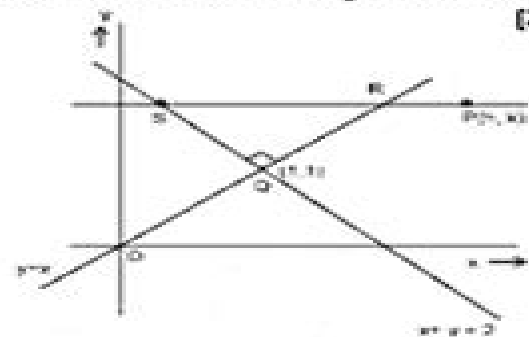
Two lines intersect at  $Q(1, 1)$

$$\text{Area of the } (\Delta QRS) = \frac{1}{2} \times 2(k-1)^2 \quad [\because QS = QR = \sqrt{2} \cdot SR]$$

$$4h^2 = [k-1]^2$$

$\Rightarrow$  locus is the pair of straight lines

$$\boxed{4x^2 = (y-1)^2} \quad \text{Ans.}$$



- Q.2** A cricket player in his career plays  $n$  match and scores total no. of  $\frac{(n+1)(2^{n+1}-n-2)}{4}$  runs. [2]

**Sol.** If he scores  $k \cdot 2^{n-k-1}$  runs in  $k^{\text{th}}$  match, where  $1 \leq k \leq n$ . Find  $n$ .

Let  $S_n$  be the total scores in his career plays  $n$  matches.

$$S_n = \sum_{k=1}^n k \cdot 2^{n-k-1} = 2^{n-1} \sum_{k=1}^n k \cdot 2^{-k}$$

$$= 2^{n-1} \left[ \frac{\frac{1}{2} \left( 1 - \frac{1}{2^n} \right)}{1 - \frac{1}{2}} - \frac{n}{2^{n+1}} \right] \frac{1}{1 - \frac{1}{2}}$$

$$= 2^{n-2} \left[ 1 - \frac{1}{2^n} - \frac{n}{2^{n+1}} \right] = 2^{n-2} - 4 - 2n = 2^{n-2} - 2n - 4$$

$$\text{But } S_n = \frac{n+1}{4} (2^{n+1} - 2 - n) \quad (\text{as given})$$

$$\text{so } \frac{n+1}{4} (2^{n+1} - 2 - n) = 2(2^{n-2} - 2n - 4)$$

$$n+1=8 \quad \text{so } \boxed{n=7} \quad \text{Ans.}$$

- Q.3** Ramesh goes to office either by car, scooter, bus or train probability of which being  $\frac{1}{7}$ ,  $\frac{3}{7}$ ,  $\frac{2}{7}$  and  $\frac{1}{7}$  respectively and

probability that he is reaching office late if he takes car, scooter, bus or train is  $\frac{2}{9}$ ,  $\frac{1}{9}$ ,  $\frac{4}{9}$  and  $\frac{1}{9}$  respectively. Find the

probability that he has travelled by car, if he reaches office in time.

[2]

**Sol.** Let  $A$ ,  $B$ ,  $C$ ,  $D$  be the events when Ramesh is going by car, scooter, bus or train respectively.

# Nmaths Question Paper 2005

**Thomas Griffiths**



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