

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.

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

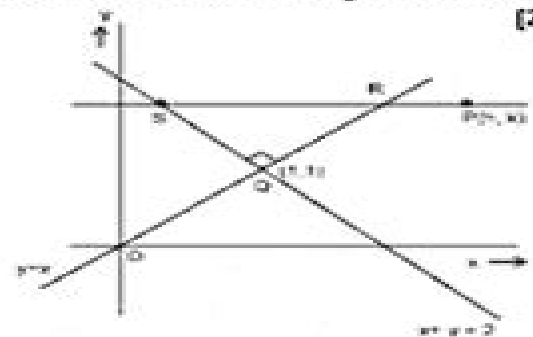
Two lines intersect at $Q(1, 1)$

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

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

\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^{th} match, where $1 \leq k \leq n$. Find n .

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

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

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

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

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

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

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

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.

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