Solutions to IIT JEE-2005 Mains Paper (Memory based)

Mathematics

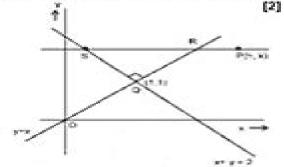
- 0.1 A line passes through the point P(h, k) is parallel to the x- axis. It forms a triangle with the lines y = x & x + y = 2 of area $4h^2$ then find the locus of P.
- On solving the lines we get S & R points Sol S:(2-k,k),R:(k,k)Two lines intersect at Q (1, 1)

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

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

⇒ locus is the pair of straight lines.





- A cricket player in his career plays n match and scores total no. of $\frac{(n+1)(2^{n+1}-n-2)}{n}$ runs [2] 0.2
- If he scores k. 2^{n+r-1} runs in k^n match, where $1 \le k \le n$. Find n. Sol Let S be the total scores in his career plays n matches.

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

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

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

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

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

$$n + 1 = 8$$

- 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 0.3 probability that he is reaching office late if he takes car, scooter, bus or train is $\frac{2}{\alpha}$, $\frac{1}{\alpha}$, $\frac{4}{\alpha}$ and $\frac{1}{\alpha}$ respectively. Find the [2] probability that he has travelled by car, if he reaches office in time.
- Let A. B. C. D be the events when Ramesh is going by car, scooter, bus or train respectively. Sel

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