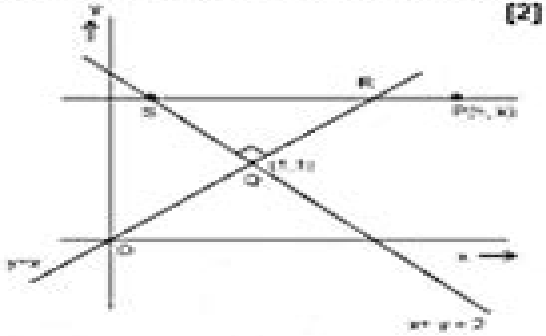
Solutions to IIT JEE-2005 Mains Paper (Memory based)

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

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

Two lines intersect at Q (1, 1)

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

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

$\Rightarrow$ locus is the pair of straight lines $\boxed{4x^2 = (y - 1)^2}$ **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 $k.\ 2^{n-k+1}$ runs in k^{th} match, where $1 \le k \le n$. Find n.

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

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

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

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

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

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

$n + 1 = 8$ so $\boxed{n = 7}$ **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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