

3 girls + 4 boys = $4C_3 \times 9C_4 = 504$
 Total number of ways = $36 + 336 + 756 + 504 = 1632$

Question 6

Prove by the method of induction.

$(1/1.2) + (1/2.3) + (1/3.4) + \dots$ up to n terms = $n/(n+1)$ where $n \in \mathbb{N}$.

Solution:

Using principle of mathematical induction,

When $n = 1$,

$$\frac{1}{1 \cdot 2} = \frac{1}{2}$$

When $n = 2$,

$$\frac{1}{1 \cdot 2} + \frac{1}{2 \cdot 3} = \frac{1}{2} + \frac{1}{6} = \frac{2}{3} = \frac{2}{2+1}$$

Hence, the given statement is true for $n = 1$ and $n = 2$

Let us assume that the given statement is true for $n = k$

$$\frac{1}{1 \cdot 2} + \frac{1}{2 \cdot 3} + \dots + \frac{1}{k(k+1)} = \frac{k}{k+1}$$

Also, let $n = k + 1$

$$\begin{aligned} \frac{1}{1 \cdot 2} + \frac{1}{2 \cdot 3} + \dots + \frac{1}{k(k+1)} + \frac{1}{(k+1)(k+2)} \\ = \frac{k}{k+1} + \frac{1}{(k+1)(k+2)} \end{aligned}$$

$$= [k(k+2) + 1] / [(k+1)(k+2)]$$

$$= (k^2 + 2k + 1) / (k+1)(k+2)$$

$$= (k+1)^2 / (k+1)(k+2)$$

$$= (k+1) / (k+2)$$

Therefore, the given statement is also true for $n = k + 1$.

Hence proved that $(1/1.2) + (1/2.3) + (1/3.4) + \dots$ up to n terms = $n/(n+1)$

Question 7

Find the term independent of x and its value in the expansion of $\left(\sqrt{\frac{x}{3}} - \frac{\sqrt{3}}{2x}\right)^{12}$.

Nmaths Exam Papers March 24

F Rizvi



Nmaths Exam Papers March 24:

The Top Books of the Year Nmaths Exam Papers March 24 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year.

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The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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web jan 26 2018 circuit diagram and explanation the complete circuit diagram of this intercom project is given below as you can see the circuit is very simple and can be easily built over a breadboard the main concept behind the circuit is the use of lm386 audio amplifier which receives the audio signal from microphone amplifies it and plays it on the

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web the intercom circuit will consist of two intercom stations linked to each other with a push to talk ptt switch this kind of circuit generally consist of only one or two amplifiers and generally uses loudspeakers as normal speaker and microphones how it is used depends on talk switch position