

Binomial Theorem - Class XI

Related Questions with Solutions

Questions

Question: 01

If the middle term in the expansion of $\left(x^2 + \frac{1}{x}\right)^n$ is $924 x^6$, then $n =$

- A. 10
- B. 12
- C. 14
- D. None of these

Solutions

Solution: 01

$${}^n C_{\frac{n}{2}} (x^2)^{n-\frac{n}{2}} \left(\frac{1}{x}\right)^{\frac{n}{2}} = 924x^6$$

$${}^n C_{\frac{n}{2}} x^{\frac{n}{2}} = 924x^6$$

$$n = 12$$

Correct Options

Answer:01

Correct Options: B