Past Year JEE Questions

Questions

Quetion: 01

If the co-efficient of x⁷ and x⁸ in the expansion of $(2 + \frac{x}{3})^n$ are equal, then the value of n is equal to _____.

Solutions

Solution: 01

Answer Correct Answer is **55**

Explanation

 ${}^{n}C72^{n-\frac{71}{3'}} = {}^{n}C82^{n-\frac{81}{3^{0}}}$

 \Rightarrow n - 7 = 48 \Rightarrow n = 55