## To Determine a Particular Term in the Expansion.

In the expansion of $\left(x^{\alpha} \pm \frac{1}{x^{\beta}}\right)^{n}$, if $x^{m}$ occurs in $T_{r+1}$, then r is given by $n \alpha-r(\alpha+\beta)=m \Rightarrow$ $r=\frac{n \alpha-m}{\alpha+\beta}$

Thus in above expansion if constant term which is independent of x , occurs in $T_{r+1}$ then r is determined by

$$
n \alpha-r(\alpha+\beta)=0 \Rightarrow r=\frac{n \alpha}{\alpha+\beta}
$$

