$\left[\frac{n(n+1)}{2}\right]^3$ An infinite Geometric series converges (X) WW FILM B. r=1|r| > 1 D. |r| < 1An event E is said to be sure if: (xi)  $P(E) = \infty$  B. P(E) = 0C. P(E) = 1 D. P(E) = -1(xii) Numbers of terms in the expansion of  $(a+b)^n$  is: A.  $n^2+1$ B. n+10. n-1(xiii) The sum of odd coefficients in the expansion of  $(1+x)^n$  is:  $2^{n+1}$ A. B.  $n^2$  $2^n$  $A_{n}$  -cot $\theta$ B.  $tan \theta$  $C_{\cdot,\cdot}$  -tan  $\theta$ D. coto (xv) If  $cot\theta < 0$  and if  $cot\theta > 0$ , then the terminal arm of angle lies in quadrant: A. sin 3a  $4\sin\alpha - 3\sin^3\alpha$  $4\cos^3\alpha - 3\cos\alpha$  $3\cos^3\alpha - 4\cos\alpha$  $3\sin\alpha - 4\sin^3\alpha$ (xvii) The period of 3sin3x is:  $6\pi$ В. nassing through the vertices is called: Circum circle Escribed circle cipal cosine