



BEYOND EXCELLENCE -81

JANAKA RODRIGO

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Prove following results without using formulae for ${}^n P_r$ or ${}^n C_r$

1. ${}^n C_r = {}^n C_{n-r}$
2. ${}^{n+1} C_r = {}^n C_r + {}^n C_{r-1}$
3. ${}^{n+1} P_r = {}^n P_r + r \cdot {}^n P_{r-1}$

#. ${}^n P_r$ හෝ ${}^n C_r$ සඳහා වන සූත්‍ර භාවිතා නොකර පහත ප්‍රතිඵල සාධනය කරන්න.

- 1) ${}^n C_r = {}^n C_{n-r}$
- 2) ${}^{n+1} C_r = {}^n C_r + {}^n C_{r-1}$
- 3) ${}^{n+1} P_r = {}^n P_r + r \cdot {}^n P_{r-1}$