Relação de Stifel.

$$\binom{n}{p}+\binom{n}{p+1}=\binom{n+1}{p+1}$$

Demonstração:

$$\binom{n}{p} + \binom{n}{p+1} = \frac{n!}{p!(n-p)!} + \frac{n!}{(p+1)!(n-p-1)!} = \frac{n!(p+1) + n!(n-p)}{(p+1)!(n-p)!} = \frac{n!(n+1)}{(p+1)!(n-p)!} = \frac{(n+1)!}{(p+1)!(n-p)!} = \frac{(n+1)!}{(p+1)!(n-p)!} = \binom{n+1}{(p+1)![(n+1) - (p+1)]!} = \binom{n+1}{p+1}$$
 C.Q.D.

Documento compilado em Thursday 13th March, 2025, 20:58, tempo no servidor.

Comunicar erro: "a.vandre.g@gmail.com".