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Dear all,

Do u know how to calculate this integral: integral (from 0 to 1) of $(x^k(1-x)^{(n-k)})dx$?

$$\int_0^1 x^k (1-x)^{(n-k)} dx$$

I know the result is $(n-k)!/k!(n+1)!$, but get difficulty to derive it to the result.

Thanks

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