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Number of middle terms when n is even in binomial expansion

1

Derivation for expression of middle term when n is even in binomial expansion

- $$t_{\frac{n}{2}+1} = C(n, \frac{n}{2})a^{n-\frac{n}{2}}x^{\frac{n}{2}}$$
- $$t_{\frac{n}{2}+1} = \frac{n!}{((\frac{n}{2})!)^2}a^{\frac{n}{2}}x^{\frac{n}{2}}$$

Expression for middle term when n is even in binomial expansion

- $$t_{\frac{n}{2}+1} = \frac{n!}{((\frac{n}{2})!)^2}a^{\frac{n}{2}}x^{\frac{n}{2}}$$