Binômio de números complexos

$$(a+b*i)^p = \sum_{n=0}^{\lceil \frac{p-1}{2} \rceil} \binom{p}{2n} (-1)^{n+1} a^{p-2n} b^{2n} + i \sum_{n=0}^{\lfloor \frac{p-1}{2} \rfloor} \binom{p}{2n+1} (-1)^{n+1} a^{p-2n+1} b^{2n+1}$$

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 (a+b*i)^p \sim = \sim \\ sum\ from\{n=0\}\ to\{lceil\ \{p-1\}\ over\ 2\ rceil\ \}\ left\ (binom\{p\}\{2n\}\ right)\ (-1)^\{n+1\}\ a^\{p-2n\}\ b^2n \sim + \sim \\ i\ sum\ from\{n=0\}\ to\{lfloor\ \{p-1\}\ over\ 2\ rfloor\ \}\ left\ (binom\{p\}\{2n+1\}\ right)\ (-1)^\{n+1\}\ a^\{p-2n+1\}\ b^\{2n\ +1\}
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