The Resultant of Chebyshev Polynomials

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Abstract. Let $T_n$ denote the $n$-th Chebyshev polynomial of the first kind, and let $U_n$ denote the $n$-th Chebyshev polynomial of the second kind. We give an explicit formula for the resultant $\text{res}(T_m, T_n)$. Similarly, we give a formula for $\text{res}(U_m, U_n)$.

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