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algebraic independence of elementary symmetric polynomials

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Theorem. *Let s_1, s_2, \dots, s_n be the elementary symmetric polynomials in n variables t_1, t_2, \dots, t_n over a commutative ring R . Then s_1, s_2, \dots, s_n are algebraically independent elements of $R[t_1, t_2, \dots, t_n]$ over R .*