## Mathematics > Algebraic Geometry

## A remark on Waring decompositions of some special plane quartics

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This work concerns Waring decompositions of a certain kind of plane quartics of high rank. The main result is the following. Let $x, 1 \_1, \ldots ., 1 \_7$ be linear forms and $q$ a quadratic form on a vector space of dimension 3 . If $x^{\wedge} 2 q=I_{1} 1^{\wedge} 4+\ldots+I^{\prime} 7^{\wedge} 4$ and the lines $I_{-} 1=0, \ldots, I_{-} 7=0$ in $P^{\wedge} 2$ intersect $x=0$ in seven distinct points, then the line $x=0$ is (possibly improperly) tangent to the conic $\mathrm{q}=0$.

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