On Non-homogeneous Ternary Cubic Equation

$$5(x^2 + y^2) - 6xy = z^3$$

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Abstract: *This paper aims at determining non-zero distinct integer solutions to the non-homogeneous ternary cubic equation* $5(x^2 + y^2) - 6xy = z^3$*. Various choices of integer solutions are exhibited.*

Keywords: Ternary Cubic, Non-Homogeneous Cubic, Integer Solutions

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