Observations On Homogeneous Bi-quadratic Equation with Five unknowns

\[(x^4 - y^4) + 2(x - y)(x^3 + y^3) = 36(z^2 - w^2)p^2\]

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Abstract: In this paper, we present non-zero integer solutions to homogeneous quintary bi-quadratic equation \[(x^4 - y^4) + 2(x - y)(x^3 + y^3) = 36(z^2 - w^2)p^2\]

Keywords: homogeneous bi-quadratic, quintary bi-quadratic, integer solutions

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