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On Euler’s concordant form equations $x^2 - D_1 y^2 = s^2$ and $x^2 - D_2 y^2 = -t^2$. (Chinese. English summary) [Zbl 1156.11311]


Summary: Let $D_1, D_2$ be positive squarefree integers. It is proved that if $D_2 \not\equiv 1, 2, 5 \pmod{8}$, then the equations $x^2 - D_1 y^2 = s^2$ and $x^2 - D_2 y^2 = -t^2$ have no primitive integer solutions $(x, y, s, t)$.

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