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ON TRANSCENDENTAL EQUATION

$$
\sqrt{2 z-4}=\sqrt{x+\sqrt{A} y}+\sqrt{x-\sqrt{A} y}
$$

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#### Abstract

We obtain non-trivial integral solutions for the typical surd equation $\sqrt{2 z-4}=$ $\sqrt{x+\sqrt{A} y}+\sqrt{x-\sqrt{A} y}$, when $A=5$ and $A=6$. A few interesting relations among the solutions are presented. Also the recurrence relations satisfied by the solutions are given.


Key Words : Nasty numbers, Integral solutions.

