

if we the condition $n > 0$ is ignored, it turns out that the rational solution of $p_1(x) = 0$ does exist! In fact, with the leading coefficient $n = -d$, one always has $p_1(x) = -dx^2 + d = -d(x^2 - 1)$. In this case solutions are ± 1 .

Acknowledgment: This study is fully supported by Pattani Campus Research Fund, Prince of Songkla University, Thailand.

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