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$$\begin{array}{l} (x,y) = \sum_{j=0}^{p-2r_{i}} (x_{j})^{2} - i \sum_{j=2r_{i}} (x_{j})^{2}$$

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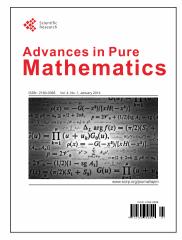
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