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## A Model for Teaching Diophantine Equations

## **Mike TUREGUN**

Oklahoma City Community College, Science and Mathematics Division 7777 South May Avenue, Oklahoma City, Oklahoma 73159, USA e-mail: mturegun@okc.cc.ok.us

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Abstract. Several algorithms to search for a pair of integer numbers m and n satisfying a linear Diophantine equation are investigated. Some general properties are outlined and used to speed up the search process on a TI-86 graphing calculator.

Key words: Euclidean algorithm, mathematics education, TI-86 graphing calculator