

# Bilkent University <br> Department of Mathematics 

## Problem Of The Month

Term: July-August 2013

Find all prime triples $(p, q, r)$ such that $3 \nmid p+q+r$ and both $p+q+r, p q+q r+r p+3$ are perfect squares. Is there any prime triple $(p, q, r)$ such that $3 \mid p+q+r$ and both $p+q+r$, $p q+q r+r p+3$ are perfect squares.

