



Bilkent University
Department of Mathematics

PROBLEM OF THE MONTH

Term: November 2005

Find all triples of natural numbers a, b , and c , such that

$$ab + c = (a^2, b^2) + (a, bc) + (b, ac) + (c, ab) = 239^2$$

where (n, m) denotes the greatest common divisor of natural numbers n and m .