MASSACHUSETTS MATHEMATICS LEAGUE CONTEST 1 - OCTOBER 2007 ROUND 3 ALG 1: LINEAR EQUATIONS

ANSWERS

A)		
B)		
C)		

A) Find a simplified expression for the value of x in terms of a and b, given $a + b \neq 0$: a(a-2x) = b(b+2x)

B) For how many ordered pairs of <u>positive</u> integers does $x - \frac{11 - y}{3} = 18$

C) What is the original cost of a dozen eggs, if buying an additional 4 eggs for 32ϕ lowers the cost per dozen by 4ϕ ?