

MASSACHUSETTS MATHEMATICS LEAGUE
CONTEST 2 - NOVEMBER 2013
ROUND 4 ALG 1: FACTORING AND ITS APPLICATIONS

ANSWERS

A) _____

B) _____

C) _____

A) Find all possible values of x for which $x^2 + 2x + 1 = 10000$.

B) Factor completely: $x(6x - 5y) + 4y(x - 4y) + y^2$

C) Solve for x . $\frac{4 - 7x - 2x^2}{5 - 11x + 2x^2} = 3 + \frac{38}{x - 12}$