

MASSACHUSETTS MATHEMATICS LEAGUE
CONTEST 2 - NOVEMBER 2014
ROUND 4 ALG 1: FACTORING AND ITS APPLICATIONS

ANSWERS

A) _____

B) _____

C) _____

A) Compute the greatest common factor of $42x^2yz^3$ and $90x^3z^4$.

B) Compute all rational values of x satisfying $(3x+4)(8x-5) = -23$.

C) Given: $x(x-2A) + A(A+5) - 4 = 5(x+4)$
Solve for x in terms of A .