

**MASSACHUSETTS MATHEMATICS LEAGUE
CONTEST 2 - NOVEMBER 2008
ROUND 4 ALG 1: FACTORING AND ITS APPLICATIONS**

ANSWERS

A) _____

B) _____

C) _____

A) Factor completely over the integers. $4x^4 + 1 - 5x^2$

B) Factor completely: $9x^2 - 18 - 9A + 7x^2 - 7A^2 + 3A + 9 + 6A^2$

C) Factor completely over the integers: $8x^5 + 38x^3y^2 + 50xy^4$