MASSACHUSETTS MATHEMATICS LEAGUE
CONTEST 2 - NOVEMBER 2006
ROUND 4 ALG 1: FACTORING AND ITS APPLICATIONS

ANSWERS

A) _____

B) _____

C) $x =$ _____

A) Factor completely $(a^2 - 3a + 1)^2 - 1$

B) Factor completely: $(x + 1)^3 - (x + 1)^2 - 9(x + 1) + 9$

C) Given: $x(x + 2y) = 1$ and $x < 0$. Solve for x in terms of y.