

MASSACHUSETTS MATHEMATICS LEAGUE
JANUARY 2004
ROUND 2: FACTORING & APPLICATIONS

ANSWERS

A) _____

B) _____

C) _____

A) The base of a triangle is five more than twice the altitude to that base. If the area of the triangle is 84, calculate the length of the base.

B) Find three consecutive odd integers such that the product of the first and the third added to the sum of all three is 234.

C) Factor: $2x^5 - 3x^4 - 16x^2 + 24x$