## MASSACHUSETTS MATHEMATICS LEAGUE CONTEST 4 - JANUARY 2007 ANSWERS

#### **Round 1 Analytic Geometry: Anything**

$$B)\left(\frac{2}{5},\frac{-12}{5},2\right)$$

# Round 2 Alg1: Factoring

#### **Round 3 Trig: Equations**

#### **Round 4 Alg 2: Quadratic Equations**

C) 
$$5\frac{11}{15}$$
 or 5.73 oz.

## **Round 5 Geometry: Similarity**

B) 
$$6\frac{2}{3}$$

## Round 6 Alg 1: Anything

#### **Team Round**

A) 
$$5x + 2y = 39$$

E) 
$$h = 2a(a + 1)$$