MASSACHUSETTS MATHEMATICS LEAGUE CONTEST 1 - OCTOBER 2014 ANSWERS

Round 1 Geometry Volumes and Surfaces

A)
$$\frac{3}{2}$$

C)
$$(5,3)$$

Round 2 Pythagorean Relations

Round 3 Linear Equations

Round 4 Fraction & Mixed numbers

Round 5 Absolute Value & Inequalities

(in any order)

B)
$$-\frac{5}{11}$$

C)
$$3 < x \le \frac{13}{3}$$
, $5 < x \le 6$

Round 6 Evaluations

A)
$$\frac{w-4}{4}$$
 (or equivalent)

B)
$$(-8, -12)$$

Team Round

B)
$$\frac{6}{5}$$
 (or 1.2)