MASSACHUSETTS MATHEMATICS LEAGUE CONTEST 2 - NOVEMBER 2009 ROUND 2 ALGEBRA 1: ANYTHING

***** NO CALCULATORS IN THIS ROUND *****

ANSWERS

A)	 	
B)		
C)		

A) Find 4 consecutive odd integers whose sum is 213 more than the largest of these integers.

B) If x + y = 3 and xy = -10, find the <u>largest</u> possible value of $\frac{x}{y}$.

C) A train travels 150 miles in w hours. If the rate of the train were increased by x mph, the train would arrive at its destination in 2 less hours. Find x in terms of w.