MASSACHUSETTS MATHEMATICS LEAGUE JANUARY 2006 ROUND 6 ALGEBRA ONE: ANYTHING

ANSWERS

A)			
Z'3. j			

A) If
$$(a+b)^2$$
 is 12 more than $(a-b)^2$, find ab .

B) If
$$b = 5c - 3$$
 and $c = 5d - 3$ and $d = 5b - 3$, find c.

C) If
$$14p^2 + 15q^2 = 41pq$$
, find the sum of all possible values for $\frac{p}{q}$.