

MASSACHUSETTS MATHEMATICS LEAGUE
OCTOBER 2003
ROUND 6: EVALUATIONS

ANSWERS

A) _____

B) _____

C) _____

A) If $4x + 5y + 6z + 3w = 12$, and $2x + 3y + 4z + w = 8$; find the value of $x + y + z + w$.

B) If $x + y = 7$ and $x - y = 3$, what is the value of 3^{2x-3y} ?

C) Find the value of $(234567891)(234567891) - (234567895)(234567887)$.