

MASSACHUSETTS MATHEMATICS LEAGUE
CONTEST 2 – NOVEMBER 2006
ROUND 1 ALG 2: COMPLEX NUMBERS (No Trig)

ANSWERS

A) _____

B) _____

C) _____

A) Expand and give your answer in $a + bi$ form: $i(2 + 3i)(1 - 4i)$

B) Find $\sqrt{2}i$ in $a + bi$ form, where $b > 0$.

C) Evaluate in $a + bi$ form: $\sum_{n=1}^{n=3} (1 - i\sqrt{3})^{(2^n)}$