

MASSACHUSETTS MATHEMATICS LEAGUE
CONTEST 2 - NOVEMBER 2016
ROUND 5 TRIG: FUNCTIONS OF SPECIAL ANGLES

ANSWERS

A) _____

B) _____

C) _____

A) Determine the minimum value of A for which $\sin A = \frac{1}{2}$ and $A > 800^\circ$.

B) Compute $\frac{\tan 60^\circ - \sin 270^\circ}{\sin 210^\circ + \cos 330^\circ - \tan(-225^\circ)}$

C) $\triangle EON$ is equilateral and R is the midpoint of \overline{NE} .
 P , O and R are collinear.
 If \overline{OS} bisects $\angle NOR$. Compute $\tan(\angle POS)$.

