MASSACHUSETTS MATHEMATICS LEAGUE CONTEST 1 - OCTOBER 2015 ROUND 5 INEQUALITIES & ABSOLUTE VALUE

ANSWERS

- A) *k* = _____
- B) _____
- C) _____
- A) For what integer k does the inequality 0 < |x| < k have <u>exactly</u> 20 integer solutions?
- B) Solve for x over the reals. |x |2x + 3| = 1 x

C) Solve for *x* over the reals. $\frac{2}{x+6} - \frac{3}{5-x} \ge 0$