Students solve equations and inequalities involving absolute values. 1A3.0

155. If x is an integer, what is the solution to $|x-3|<1$?

A $\{-3\}$
B $\{-3, -2, -1, 0, 1\}$
C $\{3\}$
D $\{-1, 0, 1, 2, 3\}$

156. Assume y is an integer and solve for y.

$$|y+2|=9$$

A $\{-11, 7\}$
B $\{-7, 7\}$
C $\{-7, 11\}$
D $\{-11, 11\}$

157. If x is an integer, which of the following is the solution set for $3|x|=1$?

A $\{0, 5\}$
B $\{-5, 5\}$
C $\{-5, 0, 5\}$
D $\{0, 45\}$