

Review Topic #2: Abs Value

Date \_\_\_\_\_

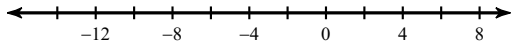
Solve each equation.

1)  $4|n| - 2 = -46$

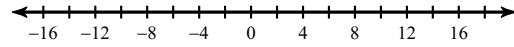
2)  $5 + 9|p + 6| = 41$

Solve each inequality and graph its solution.

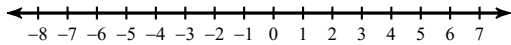
3)  $|v + 3| - 3 > 4$



4)  $\frac{|4 - 2n|}{9} > 3$



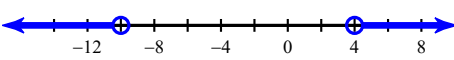
5)  $8|3p + 4| - 6 \geq 98$

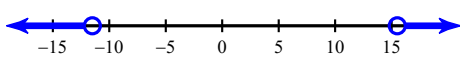


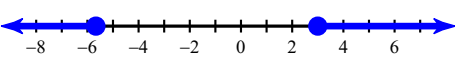
## Answers to Review Topic #2: Abs Value (ID: 1)

1) No solution.

2)  $\{-2, -10\}$

3)  $v > 4$  or  $v < -10$  : A number line with tick marks at -12, -8, -4, 0, 4, and 8. Open circles are placed at -10 and 4. Blue arrows point to the left from -10 and to the right from 4.

4)  $n < -\frac{23}{2}$  or  $n > \frac{31}{2}$  : A number line with tick marks at -15, -10, -5, 0, 5, 10, and 15. Open circles are placed at -11.5 and 15.5. Blue arrows point to the left from -11.5 and to the right from 15.5.

5)  $p \geq 3$  or  $p \leq -\frac{17}{3}$  : A number line with tick marks at -8, -6, -4, -2, 0, 2, 4, and 6. Closed circles are placed at -5.67 and 3. Blue arrows point to the left from -5.67 and to the right from 3.