

SM2 HW #1-5 (Abs Value)

Date _____ Period _____

Solve each equation.

1) $|1 + b| = 9$

2) $|-4 + x| = 9$

3) $|x + 10| = 15$

4) $|v - 7| = 4$

5) $|x - 9| + 5 = 7$

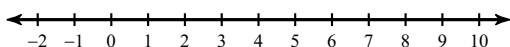
6) $|v + 1| + 9 = 18$

7) $9|9 + x| = 27$

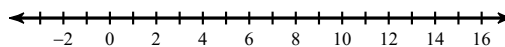
8) $2|9 + k| = 18$

Solve each inequality and graph its solution.

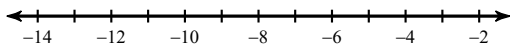
9) $|b - 5| > 1$



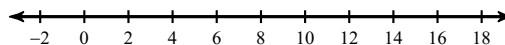
10) $|p - 6| \leq 7$



11) $|n + 9| \geq 1$



12) $|n - 8| < 9$



13) What does "the absolute value of 5" mean? Use distance in your explanation.

14) What property is shown below?

$$5 \div 5 = 1$$

15) What property is shown below?

$$3 + (-3) = 0$$

16) What property is shown below?

$$\frac{3}{3} * \frac{2}{5} = \frac{2}{5} = \frac{6}{15}$$