

Unit 1.10 Worksheet Solving Absolute value Equations and Inequalities Period _____

Solve each equation.

1) $|n| = -3$

2) $|x| = 4$

3) $|m| + 4 = 7$

4) $|n| + 4 = 0$

5) $-4|p| - 3 = -11$

6) $3 + 2|x| = 3$

7) $|4x| = 12$

8) $|v + 4| = 8$

9) $|-4r| - 1 = -13$

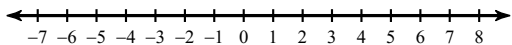
10) $2|x - 1| = 6$

11) $2|4n| + 4 = 12$

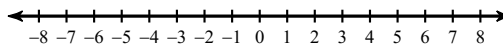
12) $2 - |a + 2| = 1$

Solve each inequality. Graph its solution. Write the interval notation.

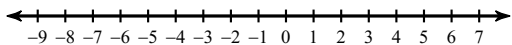
13) $|a| \geq 4$



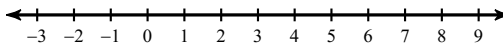
14) $-4 + |n| > -1$



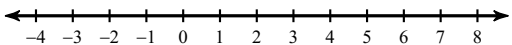
15) $-2 + |n| \geq 2$



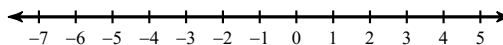
16) $4|n| + 2 \leq 10$



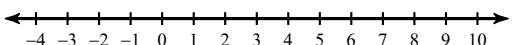
17) $-3|x| + 4 > 10$



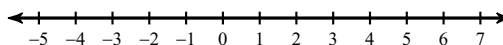
18) $|2v| \geq -12$



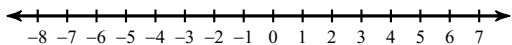
19) $3 - 2|a - 3| > -5$



20) $|x - 2| - 2 > -9$



21) $|-3 - 4x| \geq 11$



22) $|-n + 1| + 4 \leq 1$

