

Name: _____

Unit 1: Equations & Inequalities

Date: _____ Bell: _____

Homework 4: Absolute Value Equations



**** This is a 2-page document! ****

Directions: Solve each equation. Be sure to check for extraneous solutions.

1. $|x - 7| = 16$

2. $|-8k| = 24$

3. $2 = |8p + 10|$

4. $\left|\frac{y + 9}{4}\right| = 5$

5. $-9|c + 8| = -99$

6. $|2s| + 19 = 13$

7. $|2 + 7v| + 11 = 27$

8. $-6|8x - 4| = -72$

9. $53 = 5|p - 4| + 8$

10. $8 - 12|k + 5| = -4$

11. $-51 = 3 - |6 - 12r|$

12. $\frac{|6 - 2m|}{-4} - 7 = -19$

13. $|4x - 1| = 2x + 13$

14. $5n - 3 = |n + 9|$

15. $z - 10 = |7z| - 16$

16. $\frac{|12 - x|}{2} = 4x$