NAME: Period: Score: / = %=

HW 1-8

Int 2 Absolute Value Equations **Unit 1**

Evaluate. Give the exact value. (Leave as a fraction in simplest form or as a whole number. NO DECIMALS)

1. $21 - |3 - 11| \div 2$

17

2. $(|-7 + 4| \times 5 - 2) \div 6$

3. $\frac{10+16\div|4-6|}{4+2^2-15+4}$

-6

Solve. Give the exact value of the variable (Leave as a fraction in simplest form or as a whole number. NO DECIMALS)

4. $|x| = 6$

5. $|x| = 20$

$x = -20, 20$

6. $|x - 3| = 17$

7. $2|x + 7| = 16$

$x = -15, 1$

8. $5|x - 4| = 15$

9. $|2x + 9| = 30$

$x = \frac{21}{2}, -\frac{39}{2}$

10. $|x + 11| + 12 = 54$

11. $|x + 6| - 14 = 2$

$x = -22, 10$

12. $|x| + 3 = 16$

13. $\frac{|x+5|}{3} = 6$

$X = -23, 13$

14. $\frac{|x+7|}{6} = 4$

15. $8|4x - 3| - 21 = 43$

$X = \frac{-5}{4}, \frac{11}{4}$

16. $-5|x + 4| = -45$

17. $|2 - x| = 1$

$X = 1, 3$

18. $|3x - 7| - 9 = -7$

19. $|2x + 5| = -6$

NO SOLUTION

20. $\frac{|x|-6}{2} = 12$

21. $3|x| - 16 = -1$

$X = -5, 5$

22. $|3x + 11| + 23 = 7$

23. $4|16 - x| - 6 = 10$

$X = 12, 20$

24. $7 + \frac{|2x|}{3} = 19$