

NAME:

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

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

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

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.  $|x| = 20$

6.  $|x - 3| = 17$

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

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

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

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

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

12.  $|x| + 3 = 16$

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

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

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

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

$$17. |2 - x| = 1$$

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

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

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

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

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

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

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