

NAME _____ DATE _____

ALGEBRA II WORKSHEET: ABSOLUTE VALUE

1-4. Find the absolute value of each expression.

1. $|-2.4|$

2. $|x+2|$

3. $|-7x+5|$

4. $|a^2-16|$

5. Find a value of x such that the absolute value of $2x + 3$ is $-2x - 3$.

6. Find a negative value for d such that $|2d + 5|$ equals $2d + 5$.

7. Explain, without solving, why the equation $|2x^2 + 3x - 6| = -2$ has no solution. Use complete sentences.

8-9. Solve each equation for the variable.

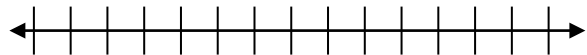
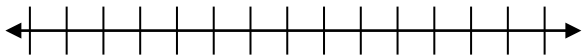
8. $3|x-16|+7=25$

9. $\frac{|x-16|}{2}-9x=3$

10-12. Solve each inequality and graph on the number line provided.

10. $|-d+5|+3<11$

11. $-3|x-4|+7\geq 4$



12. $8-|3v-7|\geq 2$

