

ALGEBRA 2

NAME _____

SOLVING QUADRATIC INEQUALITIES

DATE _____ PERIOD _____

I. SOLVE EACH QUADRATIC INEQUALITY.

1. $x^2 - x - 12 > 0$

2. $x^2 - 5x \leq 6$ (REMEMBER STEP 1!)

3. $3x^2 + 5x - 2 \geq 0$

4. $2x^2 - 3 < x$

II. EVALUATE EACH EXPRESSION. SHOW YOUR WORK!

5. $16^{\frac{3}{2}}$

6. $81^{\frac{5}{4}}$

7. $(\sqrt[3]{1000})^2$

III. SOLVE EACH EQUATION BELOW. REMEMBER TO CHECK YOUR SOLUTIONS.

8. $\sqrt{12+x} = x$

9. $\sqrt{2x+6} = x+3$