Solving Flashback #2

1. **What does it mean to solve graphically? Use an example to illustrate**

2. **How do you verify solutions to an equation? Why do you want to do this?**

3. **Solve and verify:**

$4x - 2(3x - 8) = 7$ $\qquad\qquad$ $|5x - 2| = 10$ $\qquad\qquad$ $16x^2 - 9 = 0$

$x^2 - 16 = -40$ $\qquad\qquad$ $x = \sqrt{5x - 4}$ $\qquad\qquad$ $2 = |x^2 - 2x - 1|$

4. **What is the value of the discriminant? What does it tell us about the quadratic?**

$x^2 + 4x - 12 = 0$ $\qquad\qquad\qquad\qquad$ $3x^2 + 5x + 11 = 0$