**Graded Classwork:** All Three Quadratics Form Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Due at the END OF CLASS FOR A GRADE**

Group 1: all equations in this group are in which form? (Circle One)

Standard Form Vertex Form Factored Form

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Equation** | **intercept** | **Axis of Symmetry** | **Vertex** | **Opens up or down?** |
| 1. |  |  |  |  |
| 2. |  |  |  |  |
| 3. |  |  |  |  |

Group 2: all equations in this group are in which form? (Circle One)

Standard Form Vertex Form Factored Form

|  |  |  |  |
| --- | --- | --- | --- |
| **Equation** | **Vertex** | **Axis of Symmetry** | **Max or Min?** |
| 4. |  |  |  |
| 5. |  |  |  |
| 6. |  |  |  |

7. Write the equation of the quadratic function that has an value of 1 and a vertex at

8. Write the equation of the quadratic function that was reflected and has a vertex at

9. Solve for …. aka: the intercept. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Group 3: all equations in this group are in which form? (Circle One)

Standard Form Vertex Form Factored Form

|  |  |  |  |
| --- | --- | --- | --- |
| **Equation** | **Roots/Zeros** | **A.O.S.** | **Vertex** |
| 10. |  |  |  |
| 11. |  |  |  |
| 12. |  |  |  |

The parabola below describes the path

of a swimmer diving from a springboard.

Your Task:

Write a story to describe the diver’s path.

Be specific about describing key locations on the

graph and using units in your story.

A close up of text on a black background

Description automatically generated