**Algebra 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4.1, 4.2, 4.7, 4.8 Review**

**Graph the following quadratic functions and identify the following information.**

|  |  |
| --- | --- |
| **1.**  **a. vertex: ( , )**  **b. y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ c.. axis of symmetry: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **d. domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ e. range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **f. max or min value: \_\_\_\_\_\_\_\_\_\_\_\_\_ g. solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | |
| **2.**    **a. vertex: ( , )** | **3.**    **a. vertex: ( , )** |

**Identify the vertex of each quadratic equation. Then determine the direction of opening and the transformations.**

|  |  |
| --- | --- |
| **4.**  **Vertex: ( , ) Open:** *up or down*  **Transformations:** | **5.**  **Vertex: ( , ) Open:** *up or down*  **Transformations:** |
| **6.**  **Vertex: ( , ) Open:** *up or down*  **Transformations:** | **7.**  **Vertex: ( , ) Open:** *up or down*  **Transformations:** |
| **8.**  **Vertex: ( , ) Open:** *up or down*  **Transformations:** | **9.**  **Vertex: ( , ) Open:** *up or down*  **Transformations:** |