Quadratic Functions: Standard and Vertex Form Day 09 Homework

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For each of the following functions, state the whether the parabola opens up or down, state if it has a maximum or a minimum, find the vertex and write in vertex form, if given in standard form.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Equation | Up/Down | Max/Min | Vertex | Vertex Form |
| 1. |   |  |  |  |  |
| 2. |   |  |  |  |  |
| 3.  |   |  |  |  |  |
| 4. |  |  |  |  |  |
| 5. |  |  |  |  |  |
| 6. |  |  |  |  |  |
| 7. |  |  |  |  |  |
|  | Equation | Up/Down | Max/Min | Vertex | Vertex Form |
| 8. |  |  |  |  |  |
| 9. |  |  |  |  |  |
| 10. |  |  |  |  |  |
| 11. |  |  |  |  |  |
| 12. |  |  |  |  |  |