

Name _____ Period _____

Writing Equations in Vertex and Factored Forms

Use the given information to write a quadratic function in **factored form**.

1. The parabola opens up and the x-intercepts are (3, 0) and (-2, 0)
2. The parabola opens down and the x-intercepts are (0, 0) and (4, 0)
3. The parabola opens down and the x-intercepts are (-10, 0) and (-3, 0)
4. The parabola opens up and the x-intercepts are (6, 0) and (1, 0)
5. The parabola opens down and the x-intercepts are (-5, 0) and (2, 0)

Use the given information to write a possible equation for the quadratic function in vertex form.

6. The vertex is (-1, 3) and the parabola opens up.
7. The vertex is (4, 0) and the parabola opens down.
8. The vertex is (2, 5) and the parabola opens down.
9. The vertex is (-7, -4) and the parabola opens up.
10. The vertex is (0, -6) and the parabola opens up.