Name:_____ Date: _____ Period: _____

ALGEBRA 2   **QUADRATIC FUNCTIONS AND EQUATIONS**   **Quiz**

Use the function $f(x) = (x+2)^2 - 3$ to complete the following:

    1. Graph the function.

    2. Identify the vertex.

    3. Identify the axis of symmetry.

    4. Identify the maximum or minimum.
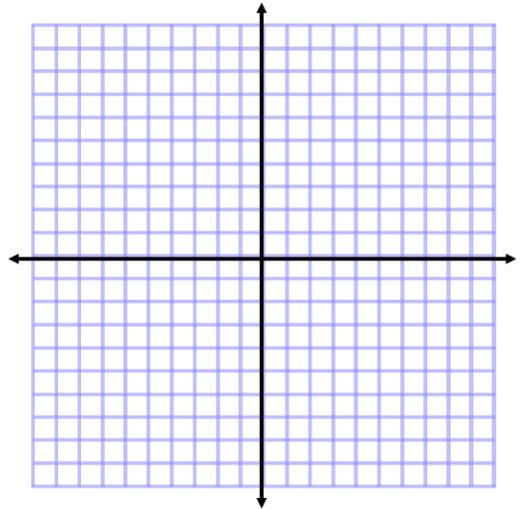
    5. Describe each transformation from the parent function y = x^2.

Use the function $f(x) = x^2 + 6x + 5$ to complete the following:

    6. Graph the function.

    7. Identify the vertex.

    8. Identify the axis of symmetry.

    9. Identify the maximum or minimum.
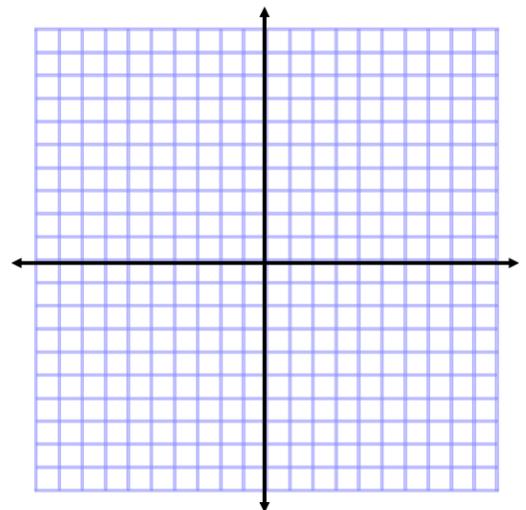
    10. Rewrite the equation in vertex form.