Name _____ Class _____ Date _____

Practice

Form G

Graphing a Function Rule

Graph each function rule.

1. $y=2-x$ **2.** $y=\frac{1}{2}x$ **3.** $y=3x+1$

Graph each function rule. Tell whether the graph is *continuous* or *discrete*.

4. The cost C, in dollars, for a health club membership depends on the number m of whole months you join. This situation is represented by the function rule $C = 49 + 20m$.

5. The cost C, in dollars, for bananas depends on the weight w, in pounds, of the bananas. This situation is represented by the function rule $C = 0.5w$.

Practice (continued) *Form G*

Graphing a Function Rule

Graph each function rule.

6. $y = |x| + 1$

7. $y = x^3$

8. $y = |x| - 2$

9. $y = |x - 1| + 2$

10. $y = -x^2$

11. $y = x^3 - 3$

12. Open-Ended Sketch a graph of a quadratic function that has x-intercepts at 0 and 4.

13. Writing Describe the general shape of the graphs of functions of the form $y = ax^3$.