

4-4 Practice

Form K

Graphing a Function Rule

Make a table of values for each function. Then graph each function rule.

1. $y = -x + 3$

2. $y = \frac{1}{4}x$

3. $y = 5x - 2$

Graph each function rule. Explain your choice of intervals on the axes of the graph. Tell whether the graph is *continuous* or *discrete*.

- The cost d , in dollars, for a parking pass depends on the number of whole weeks w you purchase. This situation is represented by the function rule $d = 25w$.
- The price p , in dollars, for apples depends on the weight w , in pounds, of the apples. This situation is represented by the function rule $p = 1.99w$.

Graph each function rule.

6. $y = |x| + 3$

7. $y = -3x^2$

8. $y = |x - 2| + 3$

9. $y = -x^2 - 2$

10. **Open-Ended** Sketch a graph of a quadratic function. Write the function rule that you graphed.

11. **Writing** Describe the general shape of the function $y = |x|$.