Name _____ Hour _____

Form G

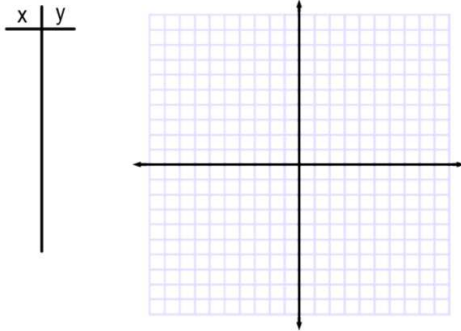# 4-4
Create a table and graph each function rule.
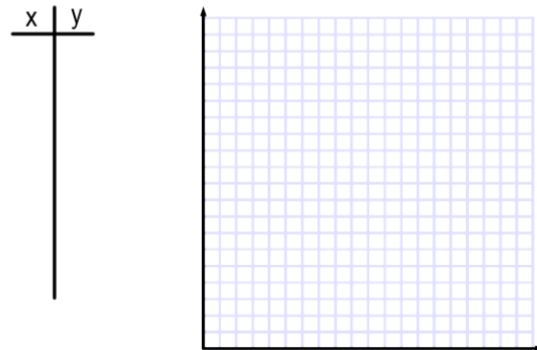
Graphing a Function Rule

1. $y = 2 - x$

x | y

**2.** $y = \dfrac{1}{2}x$

x | y
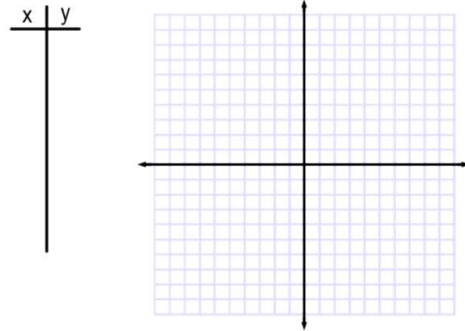
3. The cost C, in dollars, for a health club membership depends on the number m of whole months you join. This situation is represented by the function rule $C = 49 + 20m$.
Create a table and graph the function rule. Explain your choice of intervals on the axes of the graph. Tell whether the graph is *continuous* or *discrete*.
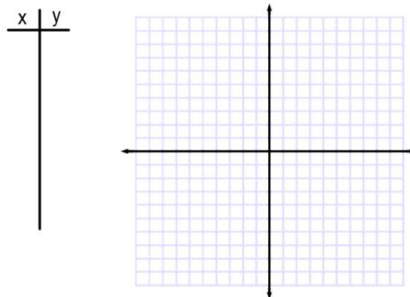
x | y

4. 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 $C = 0.5w$.
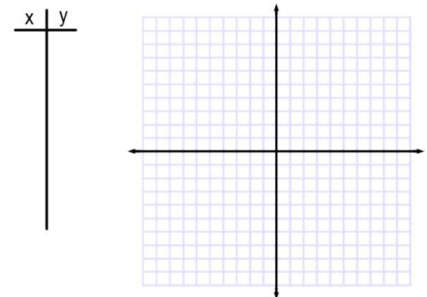**Tell whether the graph is *continuous* or *discrete*.**

_____

_____

Graph each function rule.

5. $y = x^3$

x | y

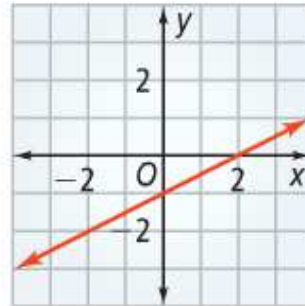**6.** $y = |x - 1| + 2$

x | y

7. $y = -x^2$

x | y
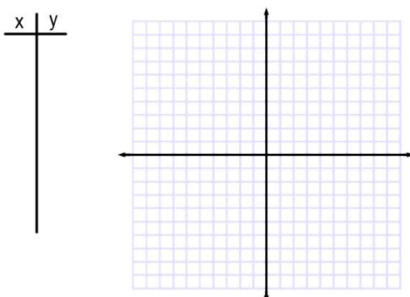
8. Which function rule is graphed below?

(A) $y = -\frac{1}{2}x + 1$

(B) $y = \frac{1}{2}x - 1$

(C) $y = \left|\frac{1}{2}x\right| - 1$

(D) $y = \frac{1}{2}x + 1$

Page 252 Review

1	2 or 3
4 or 5	6
7	8
9	10
11	**Write and equation for the non-linear table.** X | y 0 | 3 1 | 4 2 | 7 3 | 12 4 | 19