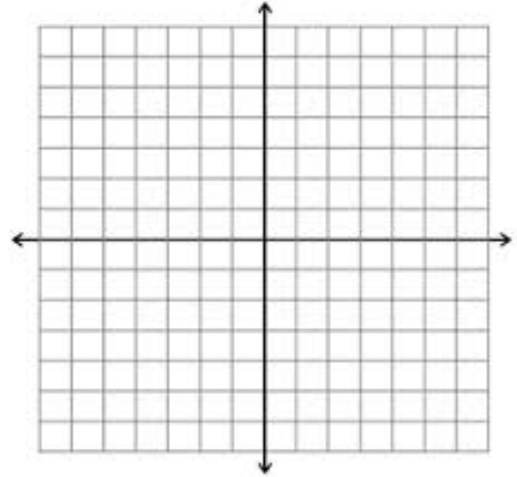


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Algebra 1

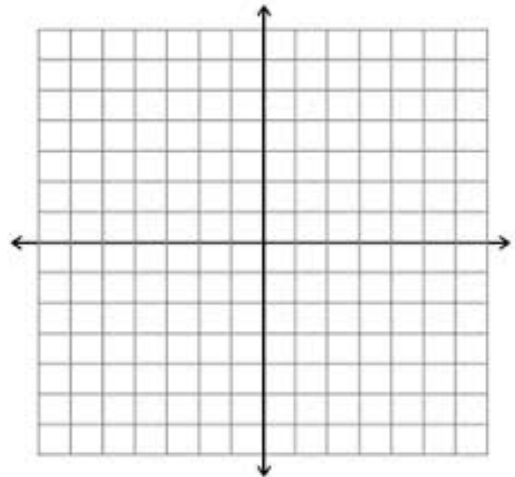
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**LT#4:** Graph equations that represent functions..

1. What is the graph of the function rule  $y = \frac{1}{2}x - 1$ ? Make a table of values.



2. **A.** The function rule  $W = 8g + 700$  represents the total weight  $W$ , in pounds, of a spa that contains  $g$  gallons of water. What is a reasonable graph of the function rule, given that the capacity of the spa is 250 gal? Make a table of values.

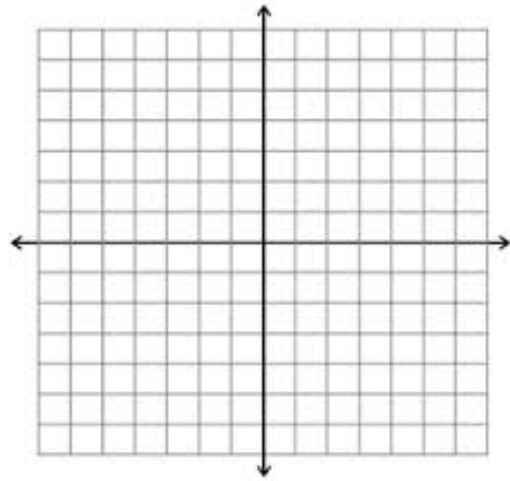
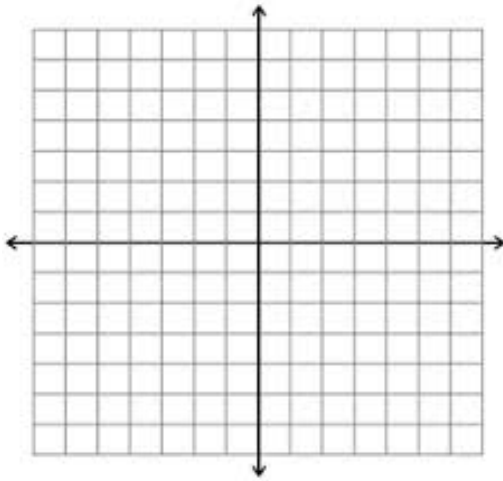


**B.** What is the weight of the spa when empty? Explain.

Make a table of values to graph each function rule. Is the graph *continuous* or *discrete*? Justify your answer.

3. The amount of water  $w$  in a wading pool, in gallons, depends on the amount of time  $t$ , in minutes, the wading pool has been filling, as related by the function rule  $w = 3t$ .

4. The cost  $C$  for baseball tickets, in dollars, depends on the number  $n$  of tickets bought, as related by the function rule  $C = 16n$ .



5. What is the graph of the function rule  $y = x^3 + 1$ ? Make a table of values.

