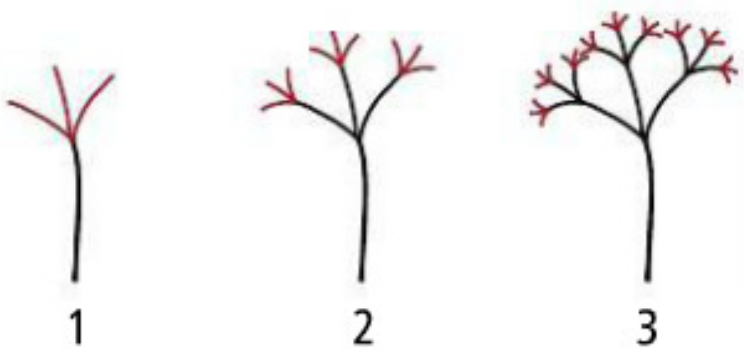
The table shows the number of new branches in each figure of the pattern below. What is a pattern you can use to complete the table? Represent the relationship using words, an equation, and a graph.

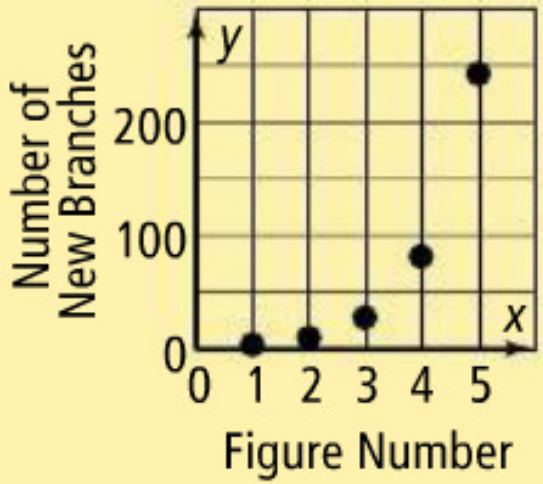
Number of Figure, x	1	2	3	4	5
Number of New Branches, y	3	9	27	■	■

The table shows the number of new branches in each figure of the pattern below. What is a pattern you can use to complete the table? Represent the relationship using words, an equation, and a graph.



Number of Figure, x	1	2	3	4	5
Number of New Branches, y	3	9	27	■	■

The number of branches is 3 raised to the xth power; $y = 3^x$; 81, 243.



What is a rule for the function represented by the ordered pairs $(1, 1)$, $(2, 4)$, $(3, 9)$, $(4, 16)$, and $(5, 25)$?

What is a rule for the function represented by the ordered pairs (1, 1), (2, 4), (3, 9), (4, 16), and (5, 25)?

$$y = x^2$$