## **Sorting Functions**

On the next page are four graphs, four equations, four tables, and four rules.

Your task is to match each graph with an equation, a table and a rule.

1. Write your answers in the following table.

Graph	Equation	Table	Rule
А			
В			
C			
D			

Explain how you matched each of the four graphs to its equation.						
Graph A						
Graph B						
Graph C						
Graph D						
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Graph A  -6 -4 -2 0 2 4 6  -2 4 -4 -6	Equation A $xy = 2$	Table A         x       -2       -1       0       1       2       3         y       -4       -3       -2       -1       0       1	Rule A  y is the same as x multiplied by x
Graph B  -6 -4 -2 0 2 4 6  -7 -4 -6	Equation B $y^2 = x$	Table B         x       -2       -1       0       1       2       3         y       4       1       0       1       4       9	X multiplied by y is equal to 2
Graph C	Equation C $y = x^2$	Table C         x       0       1       4       9       16         y       0       ±1       ±2       ±3       ±4	Rule C  y is 2 less than x
Graph D  6 4 2 0 2 4 6	Equation D $y = x - 2$	Table D $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	x is the same as y multiplied by y