



Open-Ended Practice: Algebraic Concepts

D.1 D.2 D.4

1. Buddy is working on this function table. When he has completed the table, he will graph the function.

x	-4	-3	-2	-1	0	1	2	3	4
y	-4		0		4		8		

A. What is the rule of the function? Write the answer algebraically.



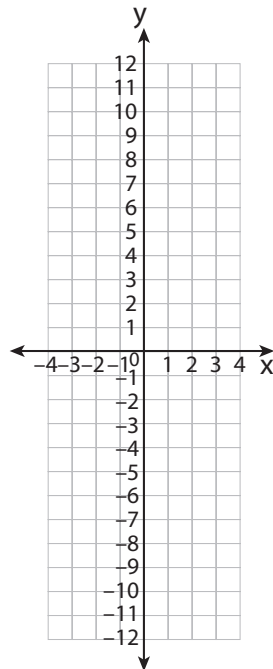
Write the rule of the function using the letters x and y .

B. Complete the function table.



Use the rule to fill in the remaining values of y .

C. Graph the function.



The points on the graph must match the ordered pairs that can be formed from your function table

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2. A plumber charges \$60 for a home visit and then \$80 per hour. For a job at the Miller household, the plumber earned \$340 in all.

A. What equation can you write to represent the situation? Explain what your variables represent.

B. How many hours did the plumber work at the Miller household? Show your work.

- C. Complete the function table to show how much money the plumber would earn for working up to 5 hours at one home. x represents the number of hours.

x	1	2	3	4	5
y					