4-4 Standardized Test Prep

Graphing a Function Rule

Multiple Choice

* Make your own table first!

For Exercises 1–4, choose the correct letter.

1. Which table of values can be used to graph the function $y = -4x + 3$?

A.

x	y
−1	−1
0	3
1	7
2	11

C.

x	y
0	3
1	−1
2	−5
3	−9

x	y	
−1	7	−4(−1) + 3
0	3	
1	−1	−4(1) + 3
2	−5	−4(2) + 3

B.

x	y
−3	−9
−1	−1
1	7
3	15

D.

x	y
0	3
1	7
2	11
3	15

2. Which term best describes a function whose graph is composed of isolated points?

F. continuous G. linear H. discrete I. nonlinear

3. Which relationship is continuous?

A. the number of cows a farmer has owned over the years ← can only be whole #s, no data in between

B. the number of cookies Stan baked for the party ←

C. the number of people attending the assembly ←

D. the distance a runner ran during training

4. The total cost c a painter charges to paint a house depends on the number h of hours it takes to paint the house. This situation can be represented by the function rule $c = 15h + 245$. What is the total cost if the painter works for 30.25 hours?

F. $245 G. $453.75 H. $572.75 I. $698.75

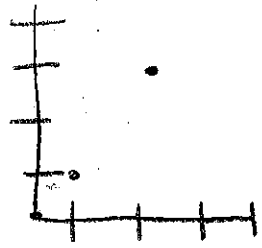
15(30.25) + 245
453.75 + 245
698.75

Short Response

5. The profit y on the number x of items a store sells is represented by the rule $y = 2x - 1$. What does a table of values for the function rule and the graph of the function look like?

* Can only be 0 or positive numbers, a store can't sell negative items

x	y	
0	−1	2(0) − 1
1	1	2(1) − 1
2	3	2(2) − 1



* not continuous, can only sell whole items