

PARKING GARAGE

STORY

A parking garage allows visitors to park for free if they stay less than one hour. If a visitor stays one hour or more but less than 2 hours, the fee is \$10. If a visitor stays 2 hours or more, the fee is \$10 per hour.

EQUATION

$$f(x) = \left\{ \begin{array}{l} 0 \\ 10 \\ 10x \end{array} \right.$$

GRAPH



TABLE OF VALUES

x	y
0	
0.5	
1	
1.5	
2	
2.5	
3	

DOMAIN

RANGE

CONTINUOUS?

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TAX RATES

STORY

A state has set its income tax rate brackets. Individuals earning \$_____ or less must pay ____% state income tax. Individuals earning more than \$_____ will pay \$200 in addition to ____% of their earnings above \$10,000.

EQUATION

$$f(x) = \begin{cases} 0.02x & \text{if } x \leq 10000 \\ 200 + 0.05(x - 10000) & \text{if } x > 10000 \end{cases}$$

GRAPH

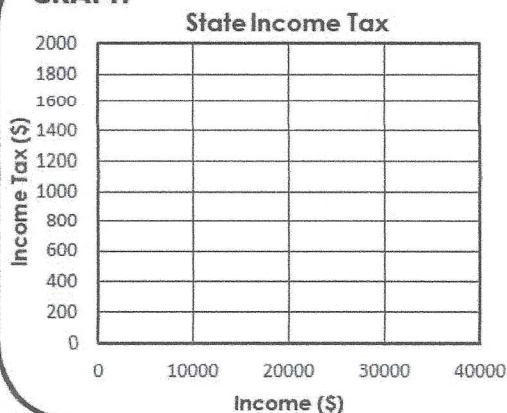


TABLE OF VALUES

x	y
0	
5,000	
10,000	
15,000	
20,000	
25,000	
30,000	

DOMAIN

RANGE

CONTINUOUS?

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BUSES FOR A FIELD TRIP

STORY

A school is planning a field trip for freshmen who pass all of their exams. The school has 118 freshmen. A school bus can hold 54 students. Teachers will ride in their own cars.

EQUATION

GRAPH

Buses Required

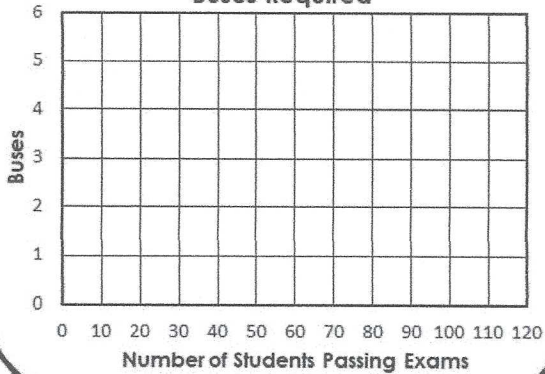


TABLE OF VALUES

x	y
0	
1	
25	
50	
75	
100	
118	

DOMAIN

RANGE

CONTINUOUS?

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CELL PHONE DATA

STORY

EQUATION

GRAPH

Cell Phone Charges

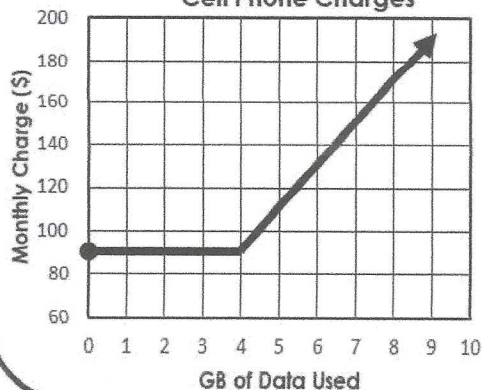


TABLE OF VALUES

x	y
0	
1	
2	
3	
4	90
5	
6	130

DOMAIN

RANGE

CONTINUOUS?

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CREATE YOUR OWN PIECEWISE FUNCTION

STORY

EQUATION

GRAPH

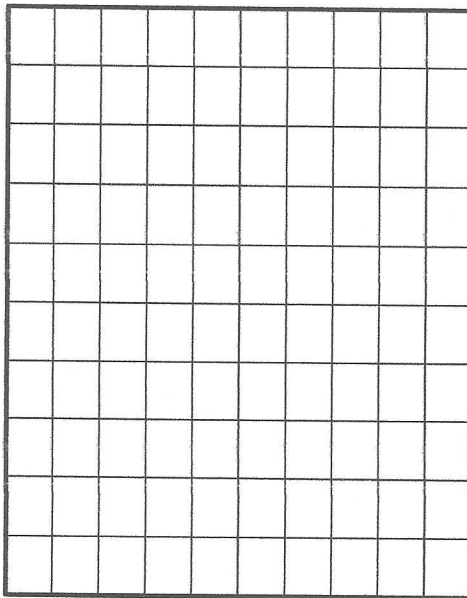


TABLE OF VALUES

x	y

DOMAIN

RANGE

CONTINUOUS?