

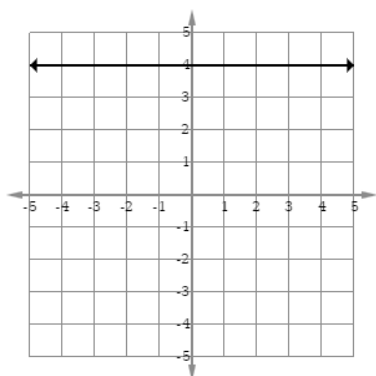
Part A: Identifying Functions [8.F.1]

1. **Determine** if each relation represents a function. **Justify** your reasoning for each.

- A) (-10, 3)
(-10, -7)
(-10, -10)
(-10, -15)

B) $y = 2x - 4$

C)



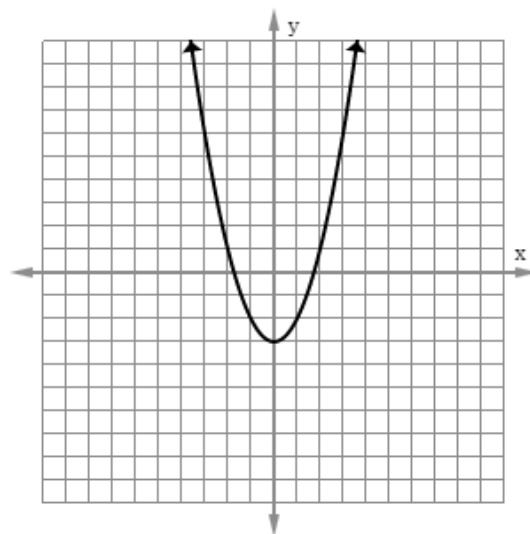
D)

x	y
-2	1
-1	1
0	3
1	-1

2. Carol claims that the indicated relation is a function but is not a linear function.

Select the statement(s) that support Carol's claims.

- A) For each value of x , there exists at most one value of y .
B) The function does not form a straight line.
C) The function only increases.
D) The function does not contain the origin.



Part B: Graphing & Describing Functions [8.F.5]

3. **Select** all the points contained by the function $y = 2x - 12$.

- A) (2, -12) B) (6, -12)
C) (12, -12) D) (6, 0)

4. A linear relationship between cups of flour, x , and cookies baked, y , is modeled below.

Cups of Flour, x	Cookies Baked, y
2	24
5	60
6	72
10	120

Determine the rate of change of the number of cookies baked per cup of flour. **Justify** your reasoning.

5. The graph shows temperature at the beach with respect to time.

Determine whether each statement is true or false.

- A) The temperature at the beach increased from 6am to 8am.

True False

- B) The temperature at the beach was constant from 7am to 10am.

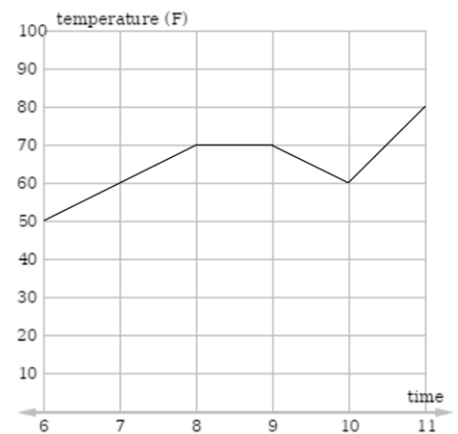
True False

- C) The temperature at the beach increased 30 degrees overall between 6am and 11am.

True False

- D) The temperature at the beach increased at a linear rate between 6am and 11am.

True False



Part C: Constructing Functions [8.F.4]

6. **Write** the equation of the linear function shown.

