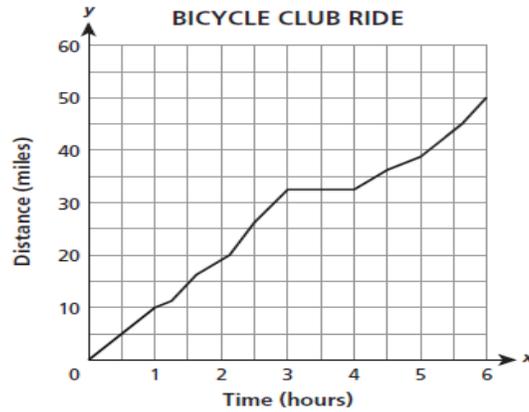


Name: _____
8.F.5

Date: _____

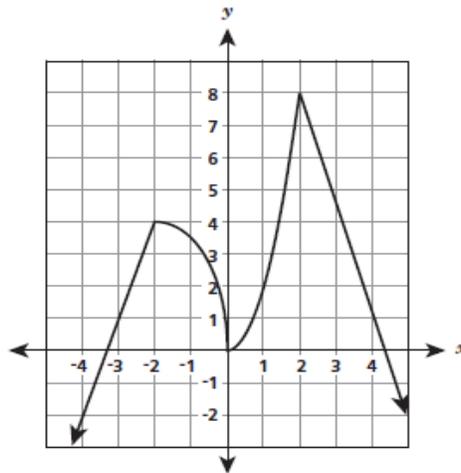
_____1. A bicycle club went on a six-hour ride. The graph below shows the relationship between the number of hours spent on the trails and the number of miles traveled. (2014)



Which statement best interprets information provided by the graph?

- A. The club members rode at a constant speed for the entire ride.
- B. The club members stopped for a rest during their ride.
- C. The number of miles traveled increased continuously throughout the ride.
- D. The number of miles traveled increased some of the time and decreased some of the time.

_____2. The graph of a function is shown below.



For which interval of x is the function decreasing and nonlinear? (2015)

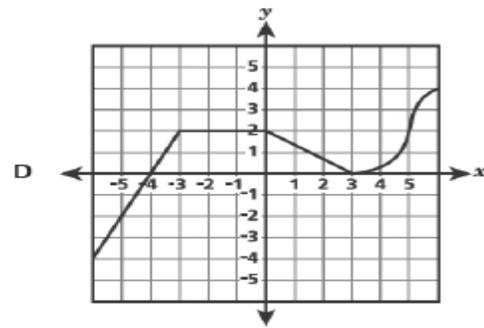
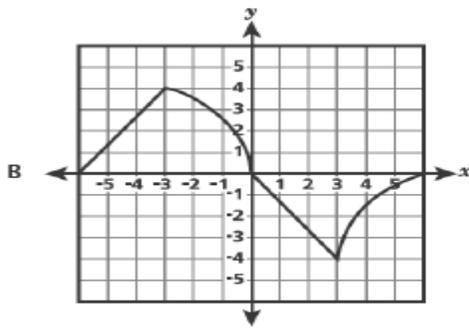
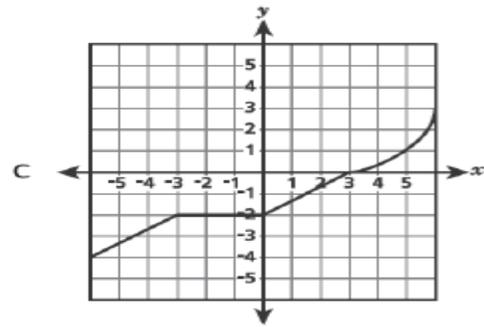
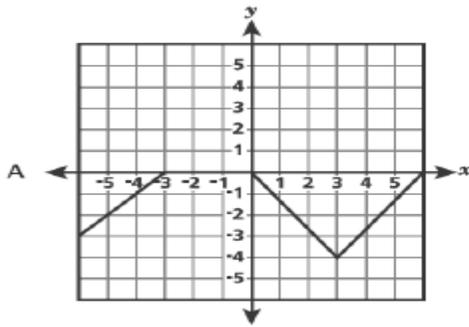
- A. between -4 and -2
- B. between -2 and 0
- C. between 0 and 2
- D. between 2 and 4

___3. A function has the following properties:

- It is increasing and linear when the value of x is between -5 and -3
- It remains constant when the value of x is between -3 and 0
- It is decreasing and linear when the value of x is between 0 and 3
- It is increasing and nonlinear when the value of x is between 3 and 5

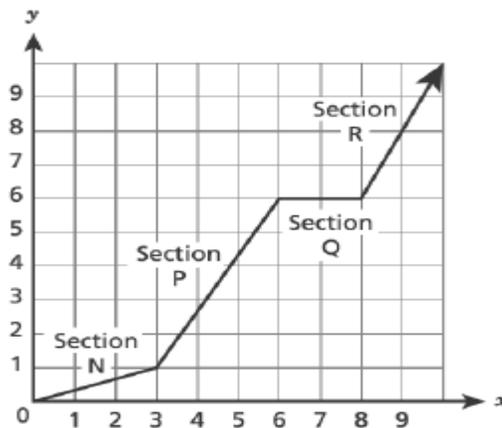
Which **graph best** represents this function?

(2017) no calculator



___4. The graph of a function is shown below.

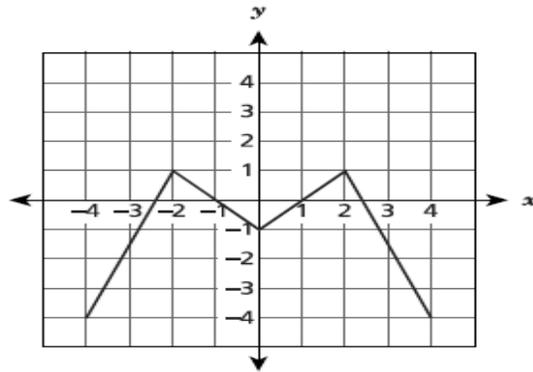
(2017)



Which statement is **true** about a section of the graph?

- In Section N, the function is linear and decreasing.
- In Section P, the function is linear and increasing.
- In Section Q, the function is nonlinear and decreasing.
- In Section R, the function is nonlinear and increasing.

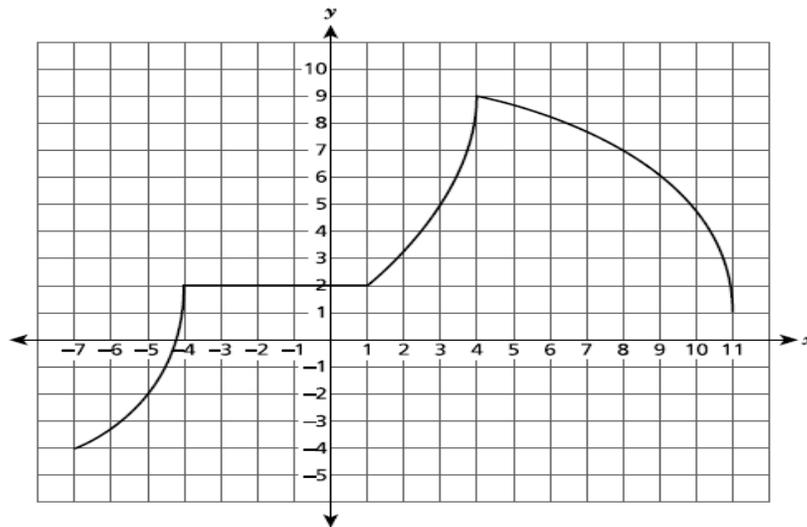
____ 5. The function of x is shown on the coordinate plane. (2018)



Over which intervals is the function increasing?

- A. $-4 < x < -2$ and $-1 < x < 1$
- B. $-4 < x < -2$ and $0 < x < 2$
- C. $-2 < x < 0$ and $2 < x < 4$
- D. $-2 < x < -1$ and $2 < x < 4$

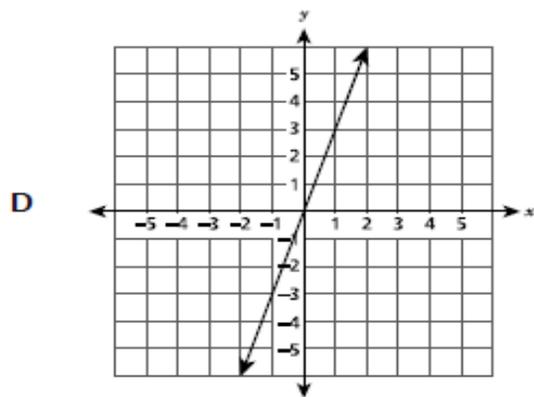
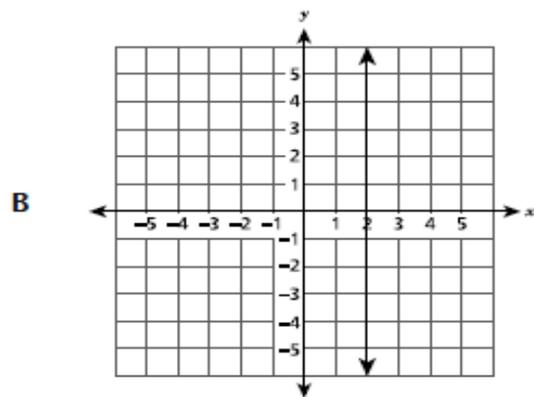
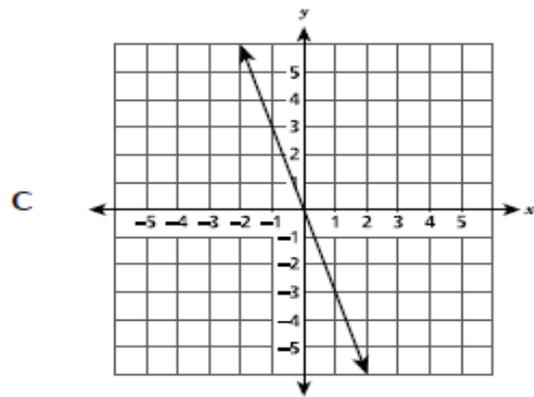
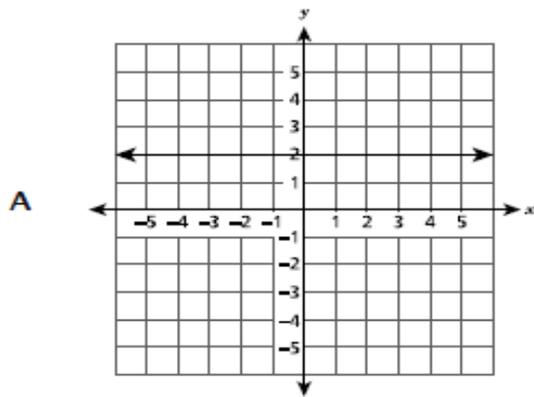
____ 6. The graph of a function is shown on the coordinate plane below. (2019 and 2021)



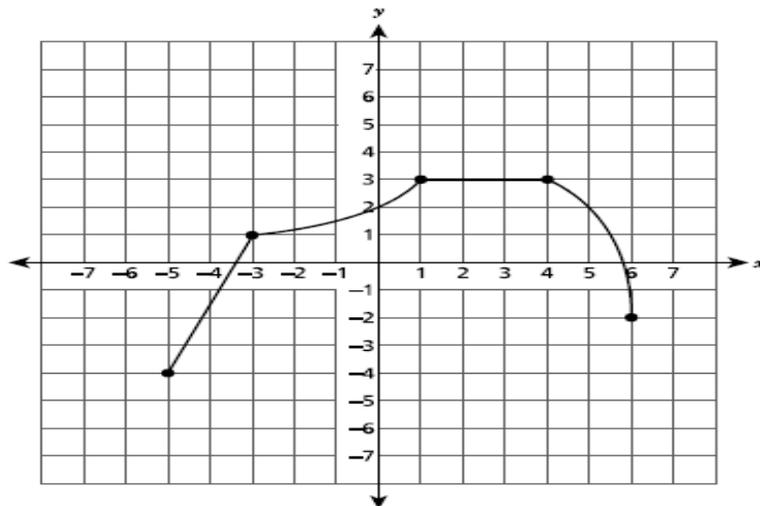
Which statement correctly describes the function on a given interval?

- A. The function is decreasing and nonlinear between $x = -7$ and $x = -4$.
- B. The function is increasing and linear between $x = -4$ and $x = 1$.
- C. The function is increasing and linear between $x = 1$ and $x = 4$.
- D. The function is decreasing and nonlinear between $x = 4$ and $x = 11$.

____7. Which graph represents a function that is increasing? (2022)



____8. The graph of a function is shown on the coordinate plane below.



Between which two values of x is the function nonlinear and increasing? (2022)

- A. -5 and -3 B. -3 and 1 C. 1 and 4 D. 4 and 6