



TABE 11 & 12 MATHEMATICS PRACTICE ITEMS

1. The two legs of a right triangle are 6 feet and 8 feet long.

What is the perimeter of the triangle?

- A. 10 feet
- B. 20 feet
- C. 24 feet
- D. 28 feet

2. A community athletic club holds an election to select a president and vice president. The nominations for selection include 4 females and 3 males.

What is the probability that a female is elected president and a male is elected vice president?

- A.  $\frac{1}{12}$
- B.  $\frac{12}{49}$
- C.  $\frac{2}{7}$
- D.  $\frac{7}{12}$

3. An escalator moves at a rate of 2 feet per second. At what rate does the escalator move in miles per hour?

5280 feet = 1 mile

- A. 0.02 miles per hour
- B. 0.34 miles per hour
- C. 0.68 miles per hour
- D. 1.36 miles per hour



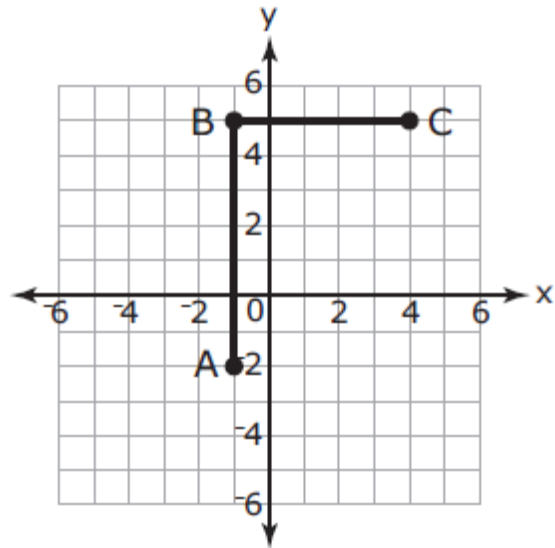
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4. Simon plots a cycling route on a map.

Each unit represents one kilometer.

What is the total length, in kilometers, of the route?

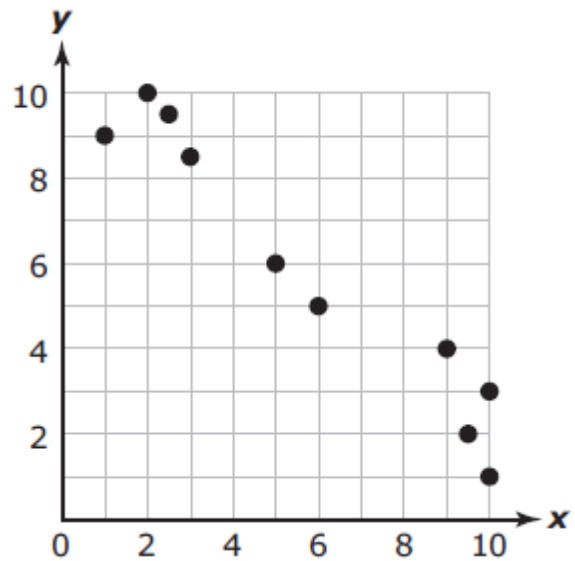
- A. 6 kilometers
- B. 7 kilometers
- C. 8 kilometers
- D. 12 kilometers



5. Look at the scatter plot.

Which type of pattern is displayed in this scatter plot?

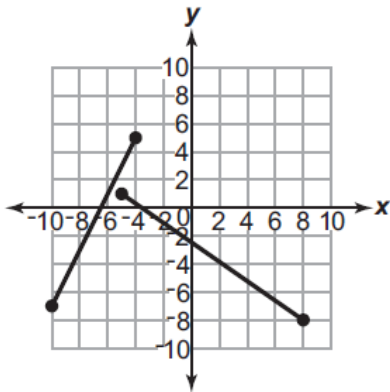
- A. a linear positive association with outliers
- B. a linear negative association with clustering
- C. a linear negative association with no outliers
- D. a linear positive association with no clustering



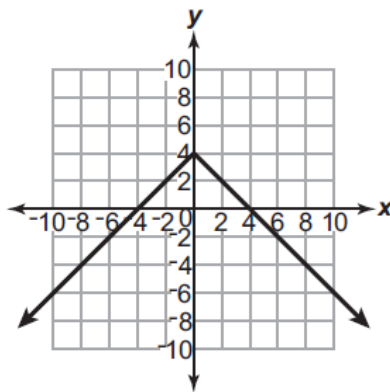


TABE 11 & 12 MATHEMATICS PRACTICE ITEMS

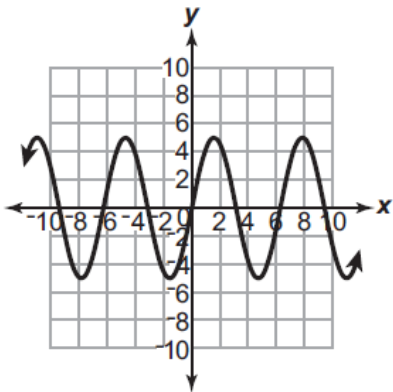
6. Look at the graphs. Which graphs represent a function? Select the three graphs that apply.



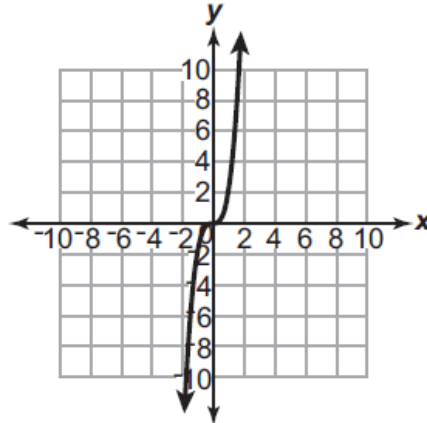
A.



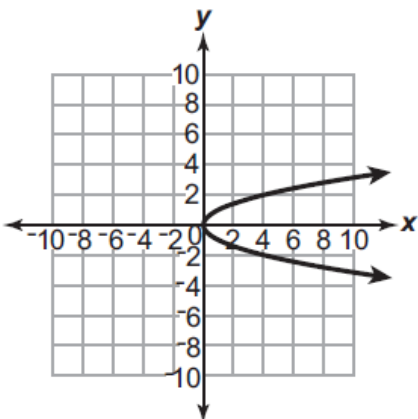
B.



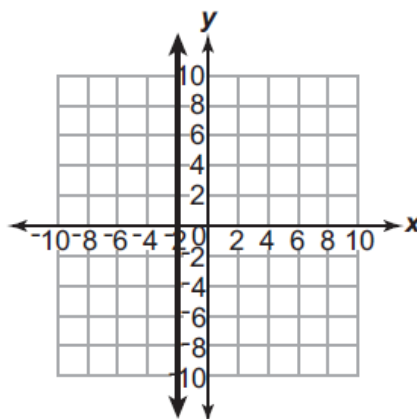
C.



D.



E.



F.



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7. Which of these expressions are equivalent to  $10x + 11$ ? Select the three that apply.

A.  $5(2x + 10) + 1$

B.  $7(x + 2) + 3x - 3$

C.  $3(3x + 4) + x - 1$

D.  $2(6x + 4) + 2x + 5$

E.  $2(6x + 5) - 2x + 1$



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**ANSWER KEY:**

1. C
2. C
3. D
4. D
5. C
6. B, C, D
7. B, C, E