Blizzard Bag Math II
Day 1

Name: _____ Date: _____ Block: 2&4

1. The owner of a sporting goods store is following a pattern to arrange baseballs into 7 rows for a wall display. The table shows the number of baseballs in the first four rows of this pattern.

Row	Number of Baseballs
1	25
2	24
3	22
4	19
5	...
6	...
7	?

How many baseballs are in the seventh row of this pattern?

A. 17

B. 15

C. 10

D. 4

7. Michael paid \$6.00 for a ticket to a football game. Soft drinks at the game cost \$0.75. Michael bought x drinks at the game.

   Which equation represents the total amount (y) he spent?

   A. $y = (6 + 0.75)x$

   B. $y = 6x + 0.75$

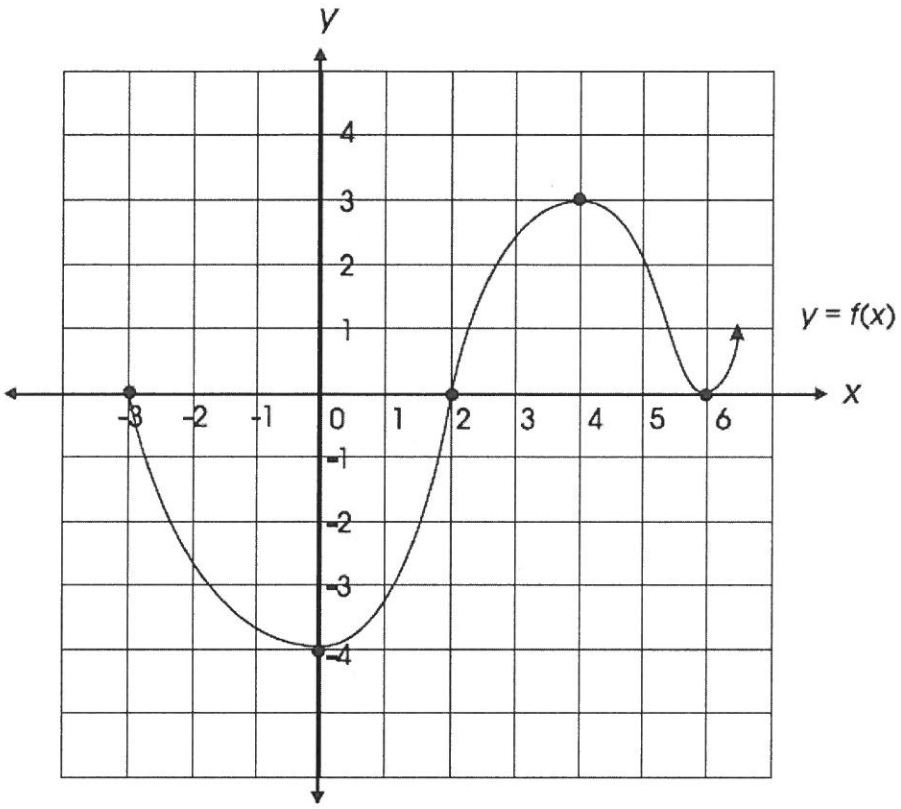
   C. $y = 6 - 0.75x$

   D. $y = 6 + 0.75x$

11. A sports club is planning a cookout. The food service charges \$1.75 per person plus a flat fee of \$200. The club can only spend \$500 for food service.

    In your **Answer Document**, determine the maximum number of people the club will be able to serve. Use a table, graph, equation or inequality to support your answer.

31. The graph of the function $f(x)$ is shown below.



Which of the following is NOT a zero of $f(x)$?

A. -4

B. -3

C. 2

D. 6

21. For his business, Gil has determined that the time it takes to finish a job varies inversely with the number of workers. This can be expressed as:

$$T = \frac{k}{w}$$

where T = time, k is a constant, and w = number of workers.

Gil's records show that 18 workers can finish a job in 6 days.

How many days will it take 12 workers to do the same job?

A. 4

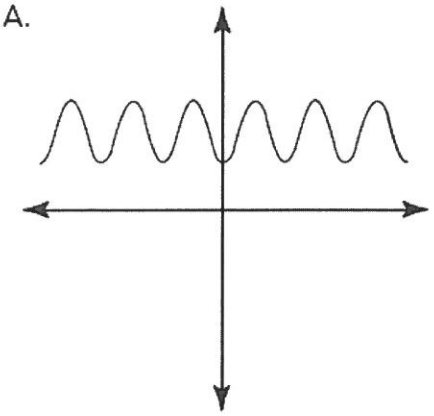
B. 9

C. 12

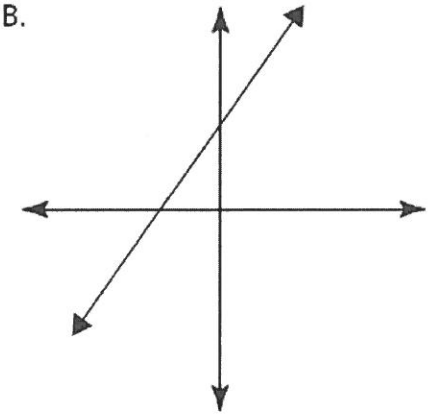
D. 36

38. Which graph represents a linear function?

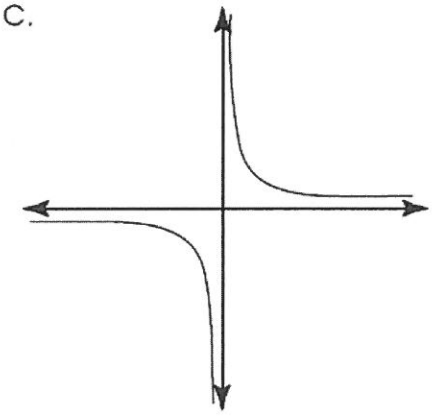
A.



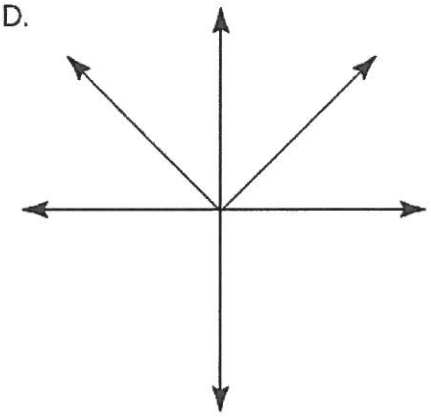
B.



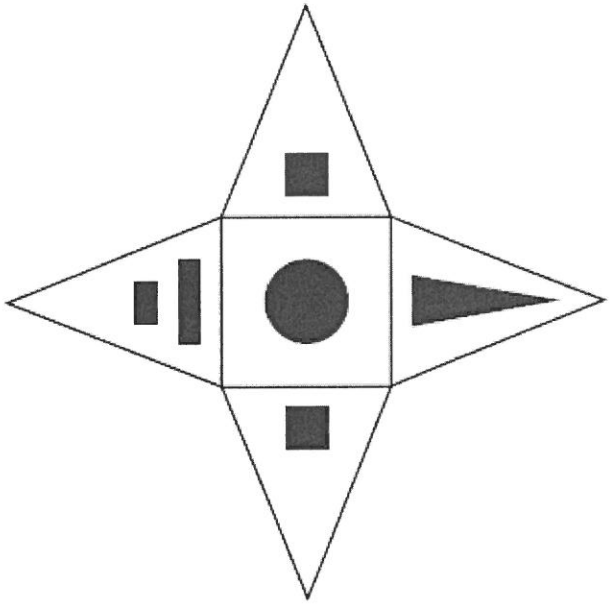
C.



D.

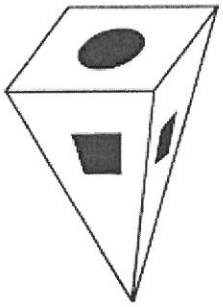


6. The net creates a pyramid.

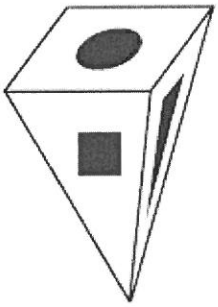


Which pyramid does this net create?

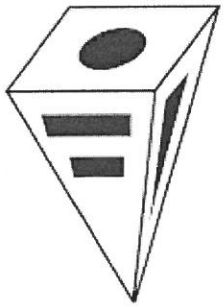
A.



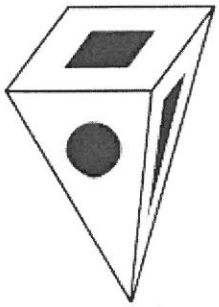
B.



C.



D.



41. The table shows values for a function.

x	y
1	4
2	9
3	16
4	25

Which equation represents this function?

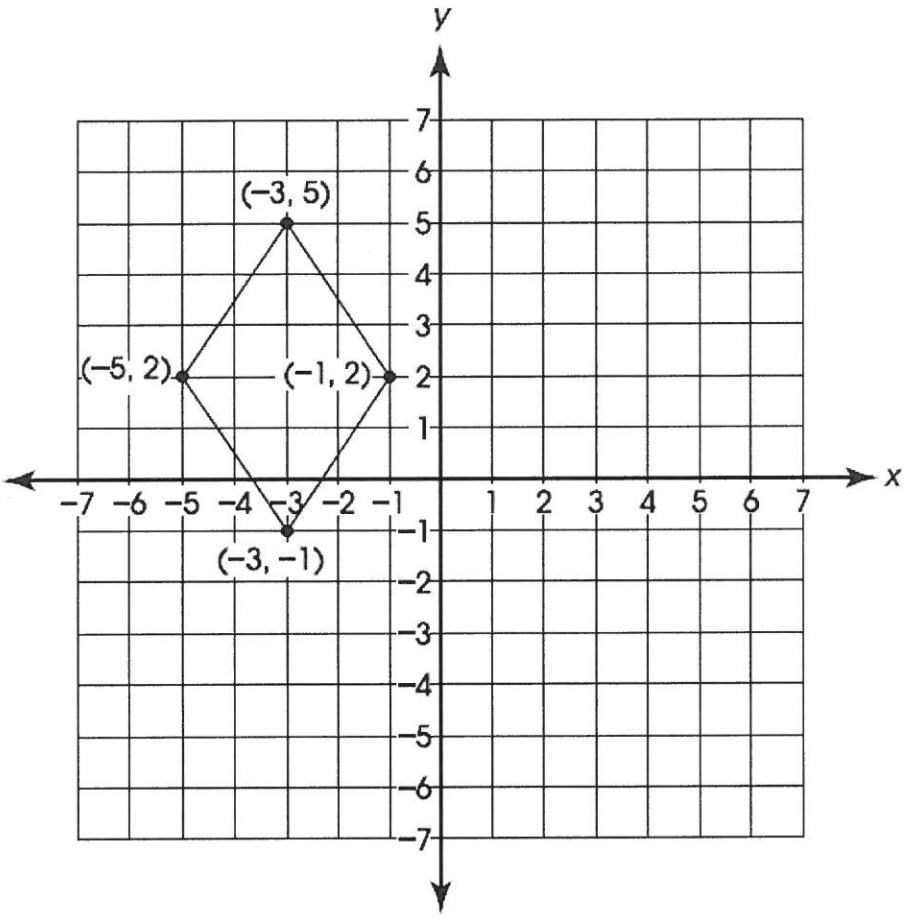
A. $y = x^2$

B. $y = x^2 + 1$

C. $y = (x - 1)^2$

D. $y = (x + 1)^2$

37. The quadrilateral below is to be translated 6 units to the right and 3 units down.



Which ordered pair is **not** the coordinates for a vertex of the translated image?

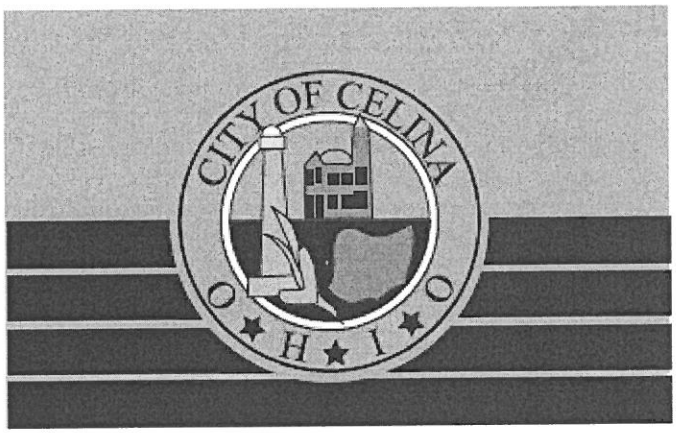
A. (3, −4)

B. (3, −1)

C. (3, 2)

D. (1, −1)

20. The city flag for Celina, Ohio, is shown below.



The flag has a total area of 5,472 square centimeters. In the center of the flag is a circular design. The diameter of this design is 48 centimeters. What is the approximate area of the flag that is **NOT** covered by the circular design?

A. 1,763 cm^2

B. 1,809 cm^2

C. 3,663 cm^2

D. 5,321 cm^2