

Directions: Show your work for credit. Use your notes and textbook for support

1. What is the rate of change for the function represented by the table?

x	-2	-1	0	1	2
y	12	7	2	-3	-8

Show your work

- A. 5
B. $\frac{1}{5}$
C. $-\frac{1}{5}$
D. -5

2. How many solutions does the equation $-2(x+7) = -3(x+7) + x + 7$ have?

Show your work

- a. Infinitely many solutions
b. One solution
c. No solutions
d. The number of solutions cannot be determined.

3. Aisha and Gabriel both sew to earn extra money, and each charges an hourly rate for a job. The equation $y = 17.50x$ shows the total charge, y , in dollars for Aisha to do a sewing job. The table below shows the same information for Gabriel.

Show your work

Gabriel's Charges

x	2	4	6	8
y	34	68	102	136

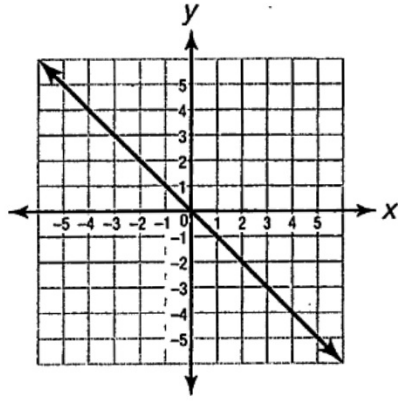
Which statement is true?

- A. Gabriel's hourly rate is \$0.50 cheaper.
B. Aisha's hourly rate is \$0.50 cheaper.
C. Aisha's hourly rate is \$16.50 cheaper.
D. Aisha and Gabriel work for the same hourly rate.

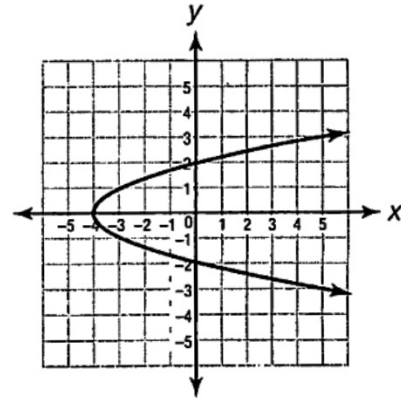


4. Which graph does **not** represent a function?

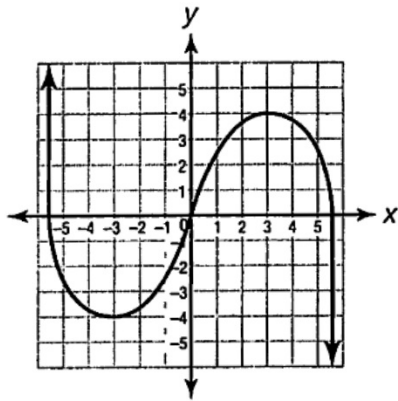
A.



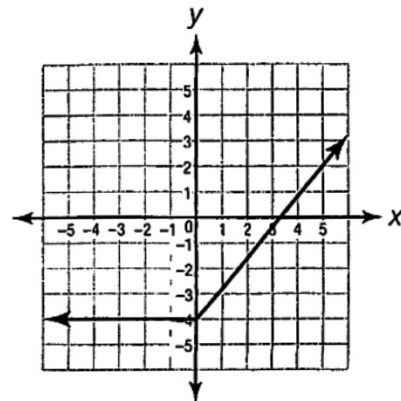
C.



B.



D.



5. Graph triangle *ABC* with vertices $A(-4, 1)$, $B(-2, 1)$, and $C(-1, -2)$ on a coordinate grid.

Graph the image of triangle *ABC* after a 180° clockwise rotation about the origin.

Compare the pre-image and the image

