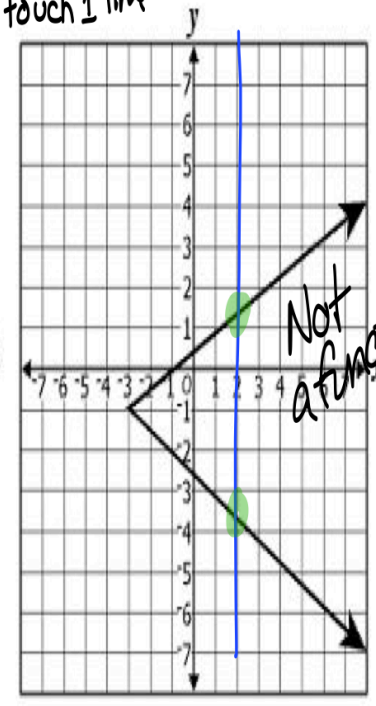
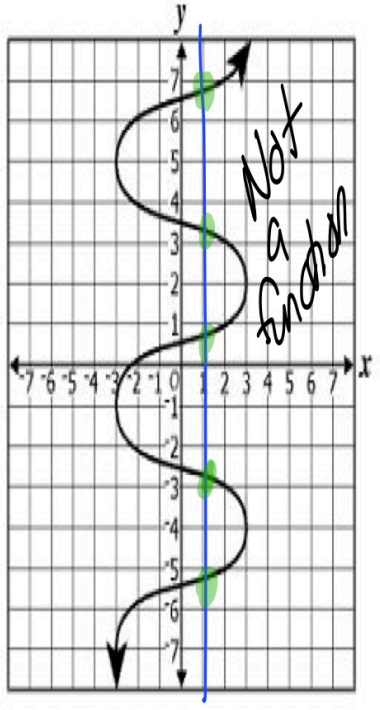
Which of the following graphs appears to be a function?

Vertical line Test
Can only touch 1 time

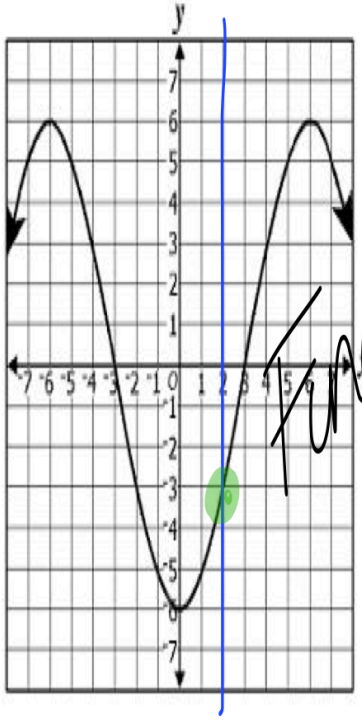
A



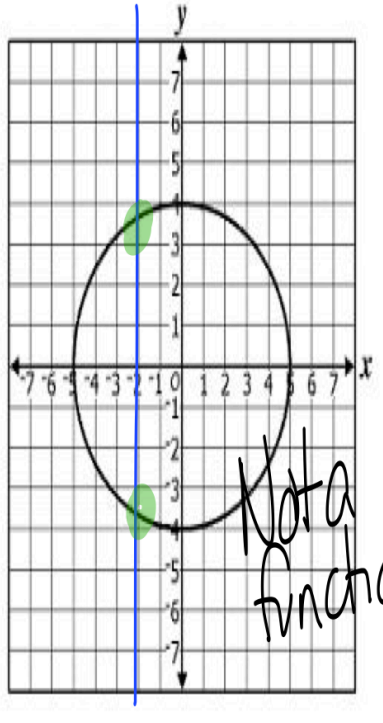
C



B



D



If $f(x) = (x-3)^2 + 1$, what is $f(6)$?

- A -2
- B 7
- C 10
- D 16

$(6-3)^2+1$

3^2+1

10

Y=

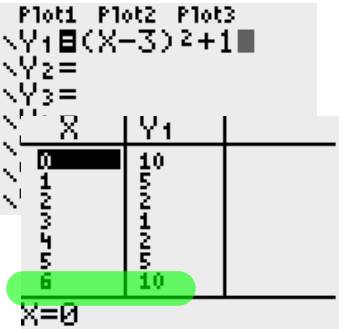
$Y_1 = (X-3)^2+1$

2nd

graph

look at y value when

X value is 6



Which number is NOT an element in the domain of this relation?

$\{(-2, 3), (0, 4), (1, 1), (6, 0)\}$

A 4

B 1

C 0

D -2

X can not repeat!

$\{(-5, 9), (2, 31), (9, 143), (11, 151), (0, 42), (5, 97)\}$

Using the equation of the line of best fit, which number is the best prediction of the output when the input is 13 ?

Stat
1
$X_5 = L_1$
$Y_5 = L_2$
Stat
→ Calc
4
enter

$y = 9.79x + 42.95$
$y = 9.79(13) + 42.95$
$y = 170.22$

L1	L2	L3 2
-5	9	------
2	31	
9	143	
11	151	
0	42	
5	97	
------	------	

L2(7) =

LinReg
y=ax+b
a=9.785171103
b=42.95437262

a=9.785171103
b=42.95437262

9.79(13)+42.95
170.22

- A 127
- B 159
- C 170
- D 178

A data set has a mean of 720 and a standard deviation of 6. Which is closest to the z-score for an element of this data set with a value of 709 ?

- A 11.00
- B 1.83
- C -11.00
- D -1.83

μ σ x

$$Z = \frac{x-\mu}{\sigma}$$

$$= \frac{709-720}{6}$$

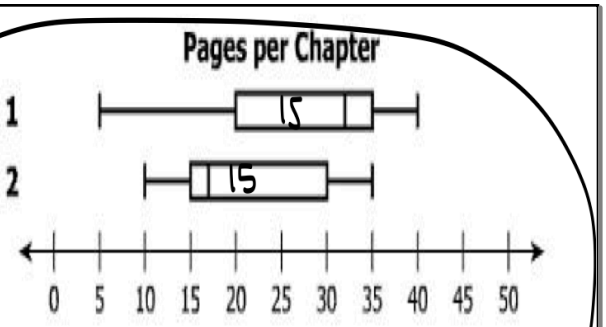
$$= \frac{11}{6}$$

$$= 1.83$$

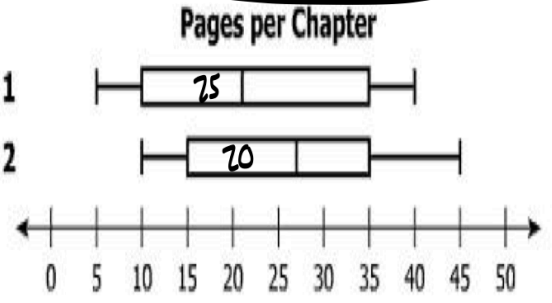
Ramon drew box-and-whisker plots to summarize the number of pages in each chapter of two books. The values of the interquartile ranges for these box-and-whisker plots are the same. Which box-and-whisker plots could represent these data?

Q_1 to Q_3 must match for both box-N-whisker plots

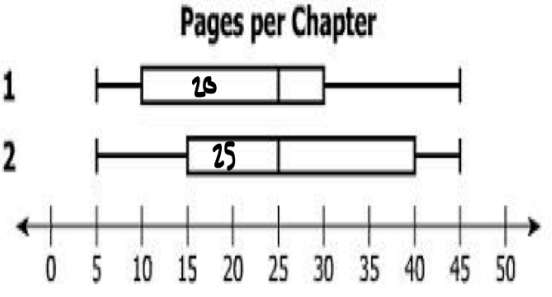
A



B



C



D