Maths



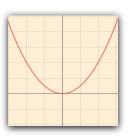
1. Denny has tried to complete a table of values for  $y = x^2$ .

Х	-3	-2	-1	0	1	2	3
У	-9	-4	-1	0	1	4	9

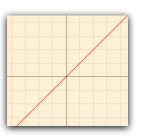
What mistake has he made?

2. Which graph shows  $y = x^2$ ?

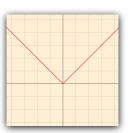
А



В



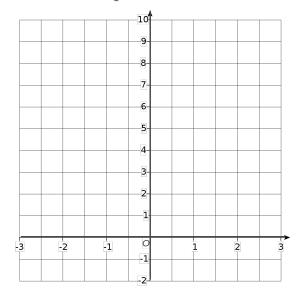
C



3. a) Complete the table of values for  $y = x^2$ .

X	-3	-2	-1	0	1	2	3
У		4		0	1		9

b) Plot the curve  $y = x^2$ .



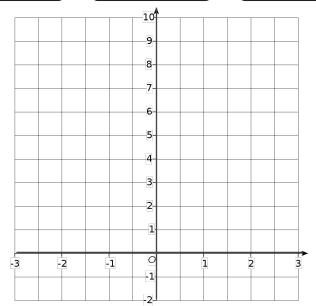


4. On the grid below plot the curves.

$$y = x^2 + 1$$

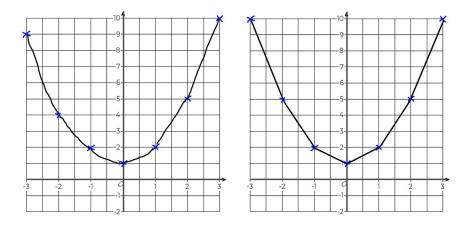
$$y = x^2 + 2$$

$$y = x^2 - 1$$



What do you notice?

5. Amir and Ella each plot  $y = x^2 + 1$ 



Amir

Ella

can you spot their mistakes?



## **Answers**



1. Denny has tried to complete a table of values for  $y = x^2$ 

X	-3	-2	-1	0	1	2	3
У	-9	-4	-1	0	1	4	9

What mistake has he made?
All the y values should be positive

2. Tick the graph that shows  $y = x^2$ 

Α



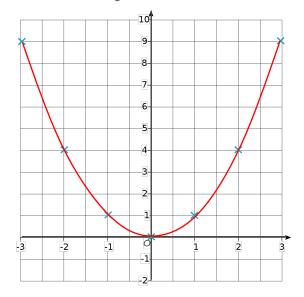
В



3. a) Complete the table of values for  $y = x^2$ 

Х	-3	-2	-1	0	1	2	3
У	9	4	1	0	1	4	9

b) Plot the curve  $y = x^2$ 



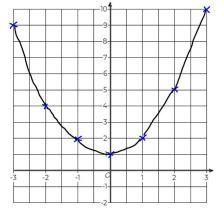


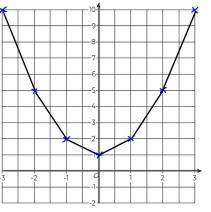
4. On the grid below plot the curves

 $y = x^2 + 2$  $y = x^2 - 1$ They all have the same shape and are translations of What do you notice? the graph  $y = x^2$ 

4. Amir and Ella plot  $y = x^2 + 1$ 

Amir – Incorrectly plotted points at (-2,4) and (-3,9)





Ella – Has connected her points with straight lines

Amir

Ella

