

Plotting quadratic graphs (1)



1) Fill in the table of values for each of the functions and plot the graphs.



2) Write down:

a) the equation of the line of symmetry a) b)

b) the turning point a) b)

c) the coordinates of the y-intercept a) b)

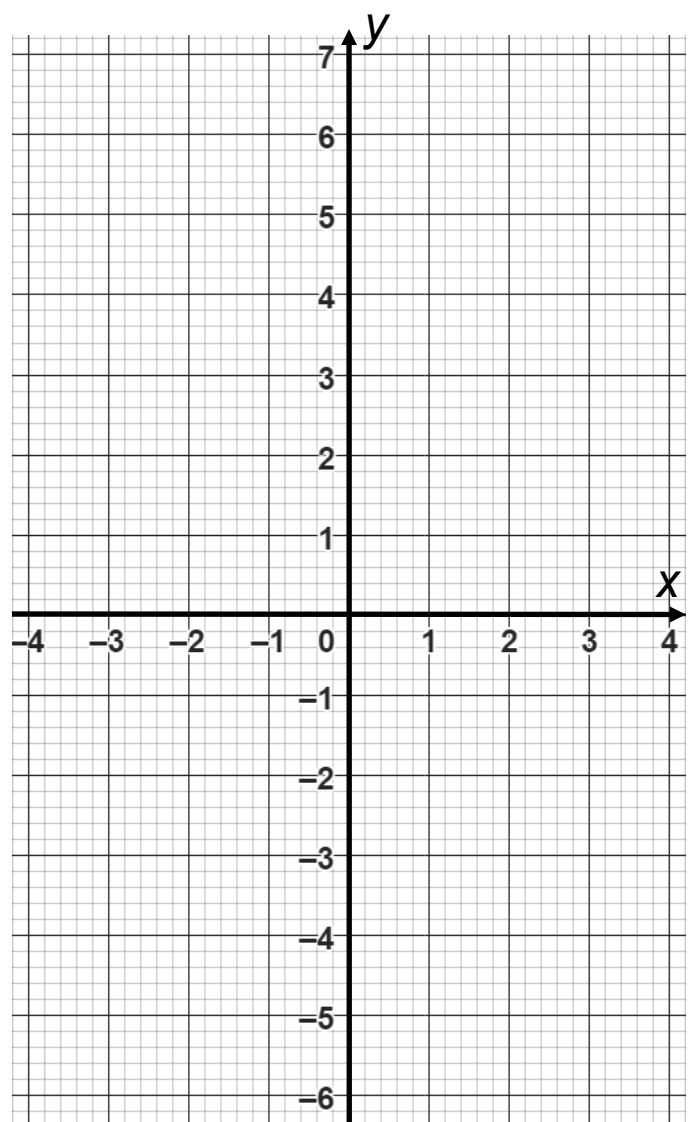
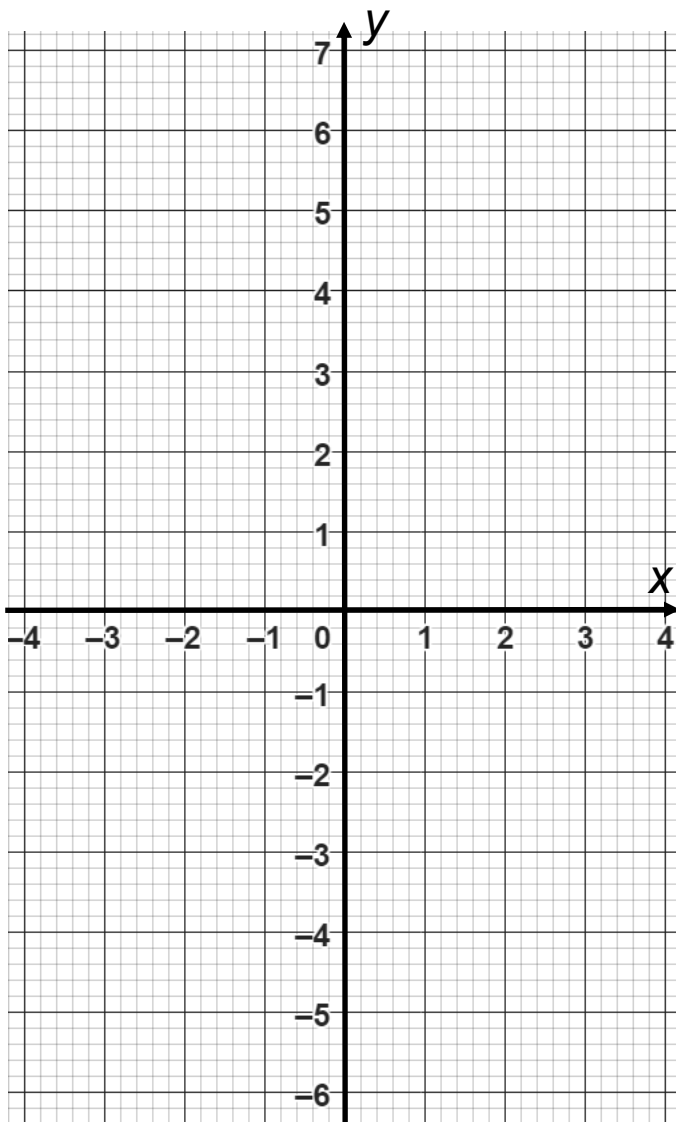
3) What have you noticed about those graphs?

a) $y = x^2 + x + 1$

X	-3	-2	-1	0	1	2	3
Y							

b) $y = -x^2 + x + 2$

X	-3	-2	-1	0	1	2	3
Y							



Name:

Date:

ANSWERS

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1) Fill in the table of values for each of the functions and plot the graphs.



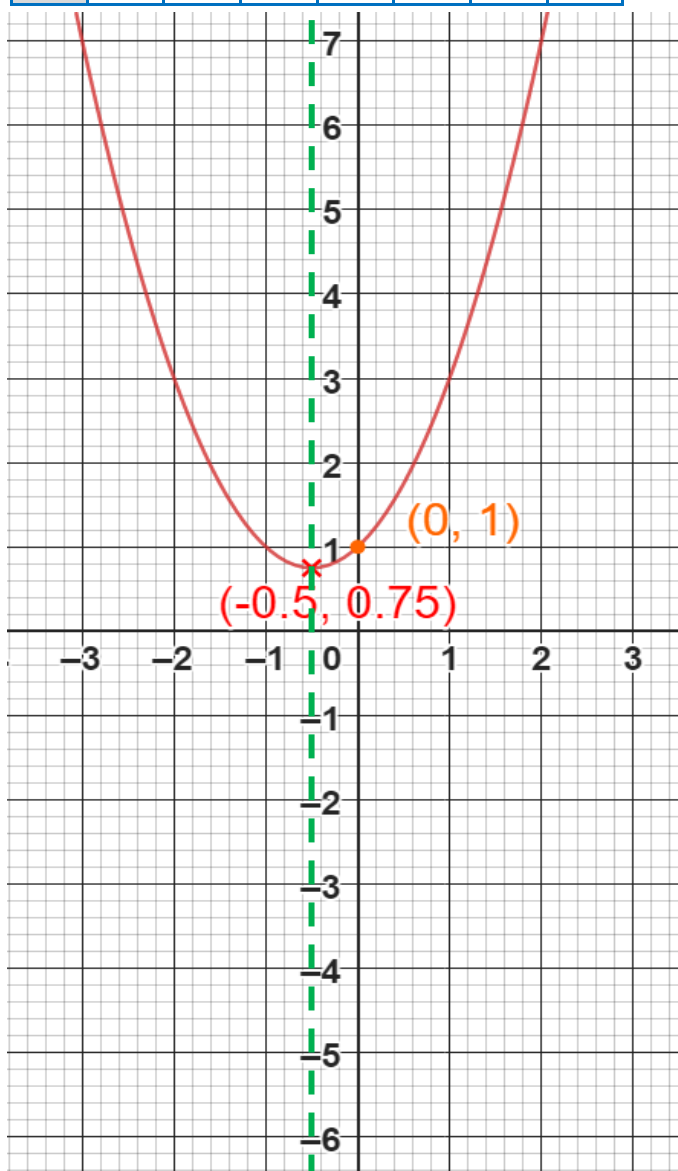
2) Write down:

a) the equation of the line of symmetry a) $x = -0.5$ b) $x = 0.5$ b) the turning point a) $(-0.5, 0.75)$ b) $(0.5, 2.25)$ c) the coordinates of the y-intercept a) $(0, 1)$ b) $(0, 2)$

3) What have you noticed about those graphs?

a) $y = x^2 + x + 1$

X	-3	-2	-1	0	1	2	3
Y	7	3	1	1	3	7	13



b) $y = -x^2 + x + 2$

X	-3	-2	-1	0	1	2	3
Y	-10	-4	0	2	2	0	-4

