

Plotting quadratic graphs (2)



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

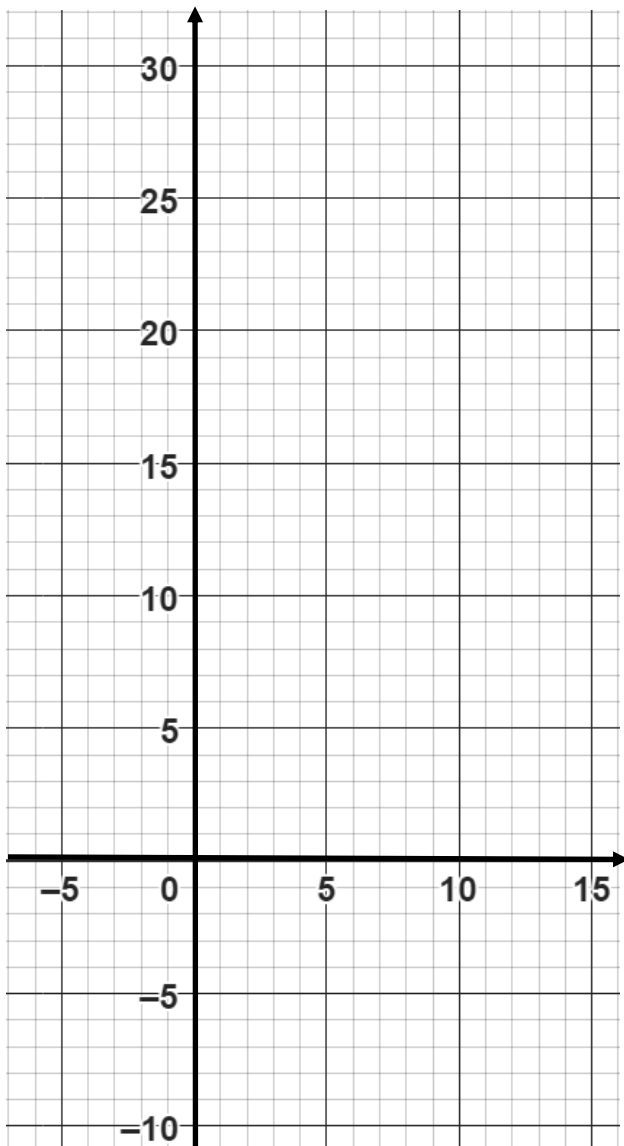


2) Write down:

- 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)
- d) the coordinates of the x-intercepts (roots) a) b)

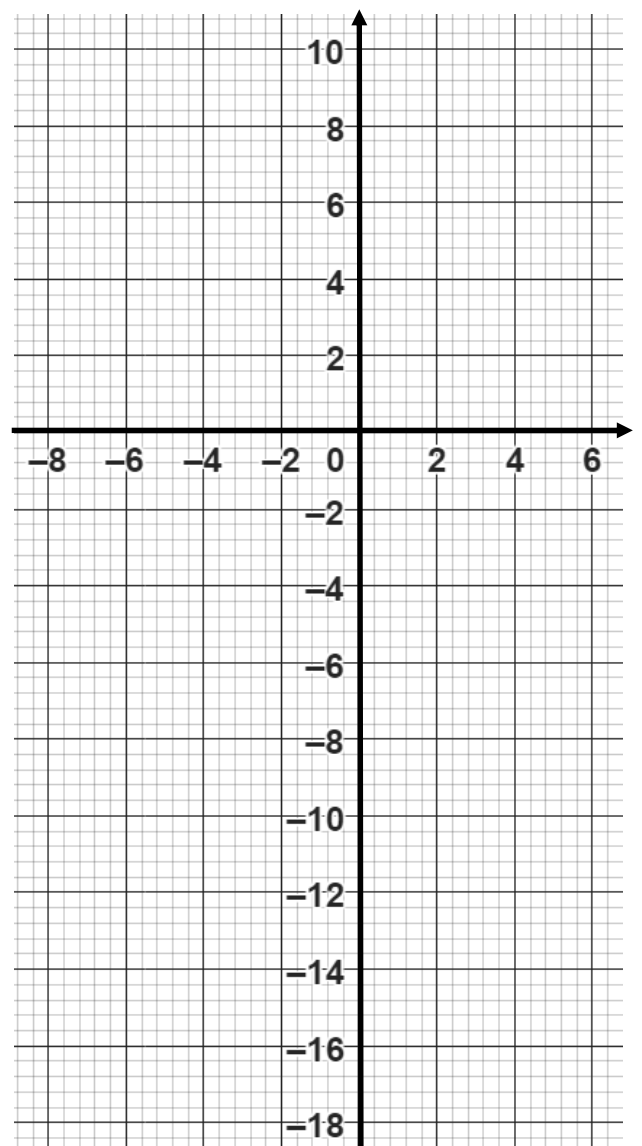
a) $y = x^2 - 2x + 5$

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



b) $y = -x^2 + 4x - 12$

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



Name:

Date:

ANSWERS

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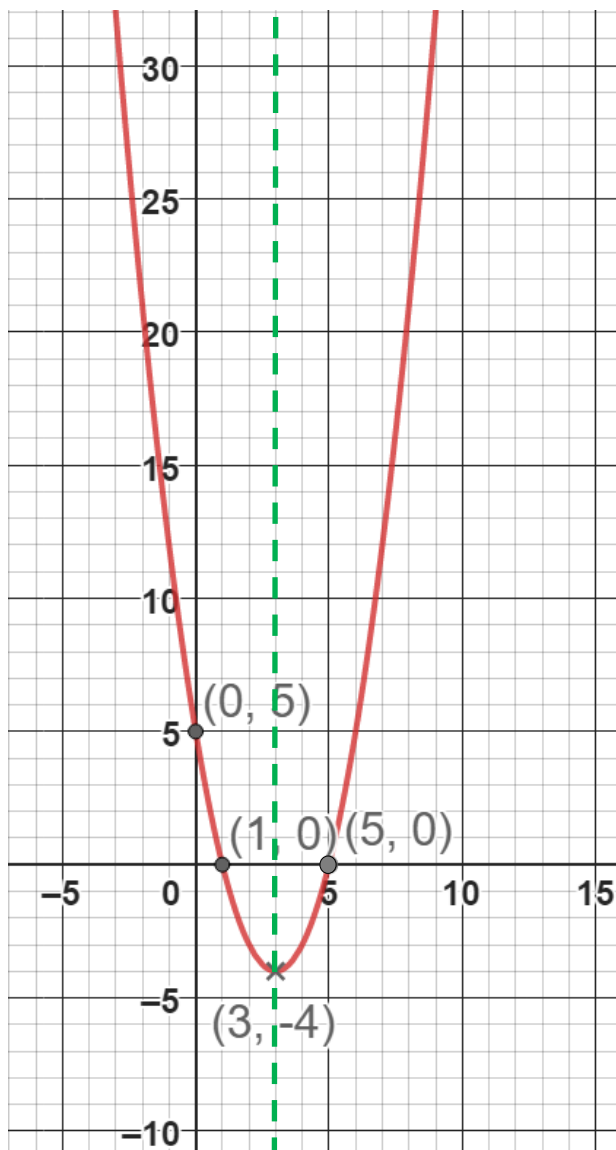
1) Fill in the table of values for each of the functions and plot the graphs.



2) Write down:

a) the equation of the line of symmetry a) $x = 3$ b) $x = -2$ b) the turning point a) $(3, -4)$ b) $(-2, -16)$ c) the coordinates of the y-intercept a) $(0, 5)$ b) $(0, -12)$ d) the coordinates of the x-intercepts (roots)
a) $(1, 0)$ and $(5, 0)$
b) $(-6, 0)$ and $(2, 0)$ a) $y = x^2 - 2x + 5$

X	-3	-2	-1	0	1	2	3
Y	20	13	8	5	4	5	8

b) $y = -x^2 + 4x - 12$

X	-3	-2	-1	0	1	2	3
Y	-15	-16	-15	-12	-7	0	9

