Graphworks

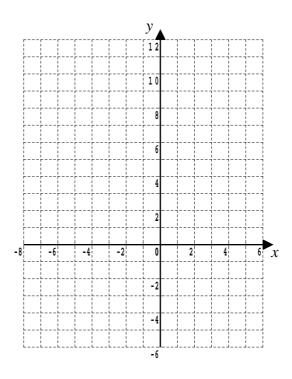
4.1 Plotting The Algebra #2

When asked to graph of a piece of algebra more complicated than a straight line a table is useful to work out sufficient points on the curve to then plot the curve.

Example

Complete the following table and then plot the curve $y = x^2 + 2x - 4$

х	- 5	-4	- 3	-2	- 1	0	1	2	3
x^2									
+ 2 <i>x</i>									
- 4									
у									



[10 marks]

Teaching Video: http://www.NumberWonder.co.uk/9005/4.mp4

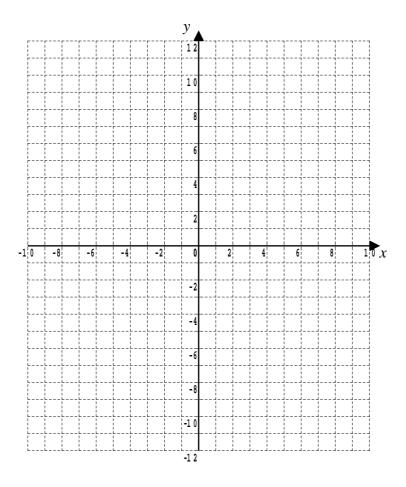


4.2 Exercise

Question 1

Complete the following table and then plot the curve $y = x^2 + 4x + 5$

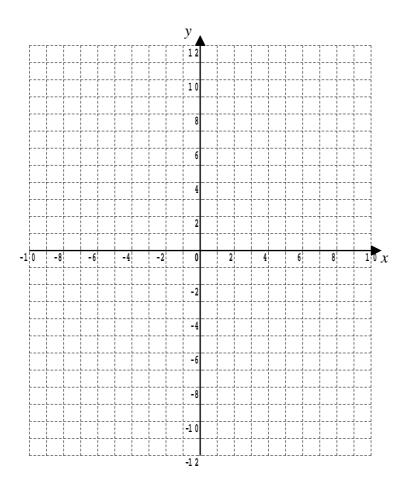
х	-5	-4	-3	-2	- 1	0	1
x^2							
+ 4x							
+ 5							
у							



[10 marks]

Question 2 Complete the following table and then plot the curve $y = x^2 + 3x - 8$

X	-6	-5	-4	- 3	-2	- 1	0	1	2	3
x^2										
+ 3 <i>x</i>										
-8										
у										

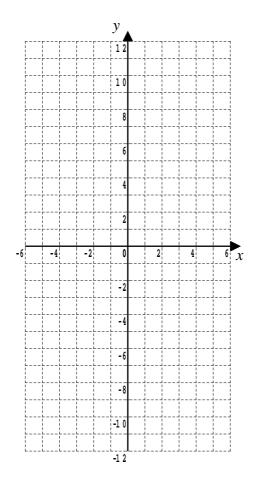


[10 marks]

Question 3

Complete the following table and then plot the curve $y = \frac{12}{x} - 2x + 1$

х	-6	- 5	-4	-3	-2	- 1	1	2	3	4	5	6
$\frac{12}{x}$												
-2x												
+ 1												
у												



[10 marks]