

**Plotting Graphs [www.m4ths.com](http://www.m4ths.com) -Steve Blades**

For Each question:

- (a) Complete the table of values you are given.  
 (b) Plot the points on an 8/8/8/8 grid and draw the graph. (Use a scale of 1:1 for the graph).  
 (c) Estimate the roots of the equation **if they exist**.  
 These are the values of  $x$  where the graph crosses the  $x$  axis.

(1)  $y = 3x + 4$

$x$	-3	-2	-1	0	1
$y$					

(2)  $y = 6 - x$

$x$	-2	-1	0	1	2	3
$y$						

(3)  $y = x^2 - 1$

$x$	-3	-2	-1	0	1	2	3
$y$							

(4)  $y = x^2 - 2x - 3$

$x$	-2	-1	0	1	2	3	4
$y$							

(5)  $y = \frac{8}{x}$

$x$	1	2	4	8
$y$				

(6)  $y = 2^x$

$x$	0	1	2	3
$y$				

(7)  $y = 8 - x^2$

$x$	-4	-3	-2	-1	0	1	2	3	4
$y$									

(8)  $y = 2x^2 + x - 7$

$x$	-3	-2	-1	0	1	2
$y$						

(9)  $y = x^3$

$x$	-2	-1	0	1	2
$y$					

(10)  $y = -x$

$x$	-3	-2	-1	0	1	2	3
$y$							