

Cubics

	$y = ax^3 + bx^2 + cx + d$	Factorised	Intercepts with y axis	Intercepts with x axis	Sketch
Example	$y = 3x^3 - 5x^2 - 58x + 40$	$y = (x + 4)(x - 5)(3x - 2)$	(0,40)	$(-4,0)$, $(5,0)$ and $(\frac{2}{3}, 0)$	
1	$y = x^3 + 2x^2 - 11x - 12$				
2	$y = -4x^3 + 9x^2 + 10x - 3$				
3	$y = x^3 + 2x^2 - 15x$				

4		$y = (2x - 1)(x - 1)(x + 3)$			
5		$y = (x - 2)^2(x + 1)$			
6				$(2,0), (7,0)$ and $(-2,0)$	
7					