6	The	The cubic polynomial $f(x)$ is defined by $f(x) = 2x^3 - 7x^2 + 2x + 3$.		
	(i)	Given that $(x-3)$ is a factor of $f(x)$, express $f(x)$ in a fully factorised form.	[3]	
	(ii)	Sketch the graph of $y = f(x)$, indicating the coordinates of any points of intersection with the axes.	[2]	
	(iii)	Solve the inequality $f(x) < 0$, giving your answer in set notation.	[2]	
	(iv)	The graph of $y = f(x)$ is transformed by a stretch parallel to the x-axis, scale factor $\frac{1}{2}$. Find the equation of the transformed graph.	[2]	