**IM3H Module 1 Quiz 2 Review**

1. Sketch a graph of the polynomial:$f\left(x\right)=2x^{4}-3x^{3}-9x^{2}-x+3$, given that $\left(x^{2}-2x-3\right)$ is a factor.
2. Sketch a graph of the polynomial: $g\left(x\right)=2x^{5}-5x^{4}-33x^{3}+158x^{2}-236x+120$, given that

 $x=2, is a root with multiplicity of 3$

1. Expand: $(2x-3)^{5}$
2. Find the fifth term: $(3x+5)^{7}$
3. Factor the following
	1. $48-3x^{4}$
	2. $8x^{6}-343y^{15}$
	3. $9x^{4}-15x^{3}-12x^{2}+20x$
	4. $6x^{4}-7x^{2}-24$