Homework section 7.1 – one of these problems will be on the test.

For each polynomial function determine x and y intercepts, multiplicity of x intercepts, end behavior and sketch the graph

1. $f\left(x\right)= 2x^{3}+7x^{2}-15x$
2. $g\left(x\right)=2x^{3}-3x^{2}-29x-30$
3. J(x) = x4 – 8x3 + 2x2 + 80x – 75
4. $k\left(x\right)= -x^{3}-4x^{2}+12x+27$ (hint: when finding x-intercepts factor out gcf of -1)
5. m(x) = - 0.02(x -1)2 (x + 5)3