MATH 3 HW – FINDING ROOTS OF LARGER POLYNOMIALS NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Sketch a graph of the function. Find all roots. SHOW ALL WORK.*

1. $x^{3}-8x^{2}+7x=0$ 2. $x^{3}+4x^{2}-18x=0$

3. $x^{4}+7x^{2}-8=0$ 4. $x^{3}-x^{2}+4x-4=0$

5. $f\left(x\right)=3x^{3}-5x^{2}-11x-3$ 6. $y=x^{3}+125$