AFM UNIT 4 – HW 1 NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Sketch a picture of the graph of each function. Find all roots.*

1. $x^{3}-4x^{2}-3x+18=0$ 2. $x^{3}-5x^{2}+4x-20=0$

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

5. $x^{3}-8x+32=0$ 6. $x^{4}-x^{3}-11x^{2}-5x+4=0$

7. $x^{4}+x^{2}-20=0$ 8. $x^{3}-2x^{2}-3x=0$