

### Trig/PreCalc Sec 2.4

Find all real zeros by making the list of all the possibilities; use synthetic division after you find a zero; repeat if necessary until you have a quadratic equation left to solve. Write the completely factored form of the equation along with all of the solutions. **Do without a graphing calculator.**

1.  $2x^3 - 3x^2 - 11x + 6 = 0$

2.  $2x^4 - 3x^3 - 5x^2 + 9x - 3 = 0$

3.  $2x^3 - 3x^2 - 17x + 30 = 0$

4.  $2x^3 - x^2 - 4x + 2 = 0$

5.  $6x^3 + 25x^2 + 3x - 4 = 0$

6.  $x^4 - 4x^3 - 6x^2 + 40x - 40 = 0$