Algebra 2
Chapter Four Outcomes and Homework

OUTCOMES:

At the end of Chapter Four, each student should be able to do the following:

- Graph the basic shapes of polynomials using key characteristics
- Divide polynomials using synthetic and long division
- Solve polynomial equations using its potential rational roots, Fundamental Theorem of Algebra and complex roots
- Understand and use the connection between factorization, *x*-intercepts and solutions
- **Graph rational functions, giving the appropriate asymptotes**

HOMEWORK: (Bold is honors only, underlined is regular only)

- Intro to Graphing Polynomial Worksheet
- 4-1 # 5 – 10 all, <u>13</u>, 15, 17,19, **21**, <u>23</u>, 27, 33, 45, 77, 79, **81**
- 4-2 # <u>1</u>, 9, 11, <u>13</u>, 17, <u>25</u>, 31, 41, 49, <u>57</u>, 59, 63, 65, **67, 68**
- 4-3 # <u>7</u>, 9, <u>15</u>, 19, 29, **35**, <u>41</u>, **45**, 53
- 4-3 # 55, 79, 85, 93, 95 (you may use your calculator for this), **100**
  pg 135 # 55, 65, 69, 85
- 4-4 # 13, 17, 25, 29, 31, <u>33</u>, 37, **39**, <u>43</u>, <u>47</u>, **49**, **55**, **67**
- **4-5 # 11, 13, 17, 21, 33, 39, 45, 77, 79**