Module 3 Quadratics concepts to know

- 1. Imaginary number (powers of i, square root of a negative number, operations of complex numbers)
- 2. Simplifying radicals
- 3. Discriminant (How it is calculated and what it means)
- 4. Factoring (GCF, 'easy' a=1, 'hard' a not 1, difference of perfect squares)
- 5. Features of a quadratic
- 6. Finding equation of a parabola given vertex / x-intercepts
- 7. Finding vertex / axis of symmetry (from standard form (-b/2a), from intercept form)
- 8. Completing the square (solving vs putting in vertex form)
- 9. Solving quadratics (look to factor first, if not factorable, use quadratic formula)
- 10. Application of quadratics

11. Graphing parabolas (from standard form, vertex form, intercept from – must find y – intercept and x-intercept (when possible))