

**MAT 105 – Regular Test #3**  
**Broad Concepts**

The following is a partial list of key concepts that could form the basis for questions on RT #3 – including definitions using proper English grammar and spelling!! Your instructor may have a list of more concepts that you need to know.

5 ways to solve a quadratic equation	Quadratic Formula
Completing the Square	Radicand
Discriminant	Rationalizing the Denominator
Exponential Growth and Decay as extensions of the Constant Rate of Change formulas	Standard form for a quadratic equation
Extraneous Root	Using the calculator CALC functions (value, zero, maximum, minimum, intersection)
Identifying “a,” “b,” and “c” in a quadratic equation	Vertex of a parabola
Parabola	Zero Product Rule
Perfect Square Rule	