**Basic Algebra Skills necessary for success in Geometry**

Manipulating Formulas:

<https://www.khanacademy.org/math/algebra2/modeling-with-algebra/manipulating-formulas/e/manipulating-formulas>

Solving linear equations (with fractions!):

<https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-variables-on-both-sides/v/solving-equations-with-the-distributive-property-2>

Solving linear equations (distributive property):

<https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-equations-with-parentheses/v/solving-equations-with-the-distributive-property>

Factoring Quadratics (by grouping or “splitting the middle”):

<https://www.khanacademy.org/math/algebra/polynomial-factorization/factoring-quadratics-2/v/factoring-trinomials-by-grouping-4>

Solving Quadratics by taking square roots:

<https://www.khanacademy.org/math/algebra/quadratics/quadratics-square-root/v/simple-quadratic-equation>

Solving Quadratics using Quadratic Formula:

<https://www.khanacademy.org/math/algebra/quadratics/solving-quadratics-using-the-quadratic-formula/v/quadratic-formula-1>

Simplifying Radicals:

<https://www.khanacademy.org/math/algebra/rational-exponents-and-radicals/alg1-simplify-square-roots/v/simplifying-square-roots-1>

Solving Systems of Equations (using elimination):

<https://www.khanacademy.org/math/8th-engage-ny/engage-8th-module-4/8th-module-4-topic-d/v/solving-systems-by-elimination-2>

Solving Systems of Equations (using substitution):

<https://www.khanacademy.org/math/algebra/systems-of-linear-equations/solving-systems-of-equations-with-substitution/v/practice-using-substitution-for-systems>