

Math ISAT: Algebra, Functions, and Mathematical Models

Skills: Algebraic Expressions

Students:	RIT Above 260: <ul style="list-style-type: none"> • Factors polynomials by identifying a common monomial and then factoring the trinomial • Simplifies monomials • Simplifies polynomial expressions using power laws
Students:	RIT 251-260: <ul style="list-style-type: none"> • Applies algebraic methods to solve complex real-world and theoretical problems • Evaluates expressions by substituting with rational numbers • Multiplies binomials • Multiplies a polynomial by a polynomial • Divides a polynomial by a monomial • Factors polynomials by identifying common factors • Factors trinomials in the form $x^2 + bx + c$ • Factors polynomials using difference of squares • Simplifies monomials • Simplifies polynomial expressions
Students:	RIT 241-250: <ul style="list-style-type: none"> • Applies algebraic methods to solve a variety of real-world and theoretical problems • Evaluates expressions by substituting with rational numbers • Evaluates absolute-value algebraic expressions using substitution strategies • Multiplies binomials • Factors trinomials in the form $x^2 + bx + c$ • Factors polynomials using difference of squares • Simplifies polynomial expressions
Students:	RIT 231-240: <ul style="list-style-type: none"> • Uses basic operations on algebraic expressions (combining like terms) • Uses basic operations on algebraic expressions (expanding - monomial by a binomial) • Uses basic operations on algebraic expressions (substituting for unknowns) • Uses basic operations on algebraic expressions (substituting for unknown exponents) • Writes equivalent forms of algebraic expressions (e.g., $(x + 3)/2 = x/2 + 3/2$)
Students:	RIT 221-230: <ul style="list-style-type: none"> • Demonstrates an understanding of properties (e.g., commutative, associative, distributive, properties of 0) • Uses basic operations on algebraic expressions (expanding - monomial by a binomial) • Uses basic operations on algebraic expressions (uses correct order of operations) • Uses basic operations on algebraic expressions (substituting for unknowns) • Writes equivalent forms of algebraic expressions (e.g., $(x + 3)/2 = x/2 + 3/2$)
Students:	RIT 211-220: <ul style="list-style-type: none"> • Uses basic operations on algebraic expressions (uses correct order of operations)
Students:	RIT 201-210: <ul style="list-style-type: none"> • Uses basic operations on algebraic expressions (uses correct order of operations)
Students:	RIT 191-200: <ul style="list-style-type: none"> • <i>No Skills Listed</i>
Students:	RIT 181-190: <ul style="list-style-type: none"> • <i>No Skills Listed</i>
Students:	RIT 171-180: <ul style="list-style-type: none"> • <i>No Skills Listed</i>
Students:	RIT Below 171: <ul style="list-style-type: none"> • <i>No Skills Listed</i>