SM2 Term One: Ms. Gilson

WATCH THESE VIDEOS to make sure you understand the concept. Then RETAKE!

Unit 1: Exponents and Radicals

_____1) Simplify expressions with exponents

- Understand basic exponent operation properties: https://www.khanacademy.org/math/algebra/rational-exponents-and-radicals/modal/v/basic-fractional-exponents
- Understand what a rational exponent is: https://www.khanacademy.org/math/algebra/rational-exponents-and-radicals/modal/v/basic-fractional-exponents
- Perform operations with rational exponents: https://www.khanacademy.org/math/algebra/rational-exponents-and-radicals/modal/v/simplifying-exponent-expression-with-division
- Rewrite roots as rational exponents (& vice versa): https://www.khanacademy.org/math/algebra/rational-exponents-and-radicals/modal/v/rewriting-roots-as-rational-exponents

_____2) Simplify Radical expressions

- Simplify Radicals (numbers): https://www.khanacademy.org/math/algebra/rational-exponents-and-radicals/modal/v/simplifying-square-roots-1
- Simplify Radicals (variables): https://www.khanacademy.org/math/algebra/rational-exponents-and-radicals/modal/v/simplifying-square-roots-comment-response

_____3) Perform Operations with Radicals

- Add and Subtract: https://www.khanacademy.org/math/algebra-home/alg-exp-and-log/miscellaneous-radicals/v/adding-and-simplifying-radicals
- Rationalize the denominator: https://www.khanacademy.org/math/algebra-home/alg-exp-and-log/miscellaneous-radicals/v/rationalizing-denominators-of-expressions

Unit 2: Polynomials

_____4) Add, Subtract and Multiply polynomials

- Adding: https://www.khanacademy.org/math/algebra/introduction-to-polynomial-expressions/adding-and-subtracting-polynomials/v/adding-and-subtracting-polynomials-1
- Subtracting: https://www.khanacademy.org/math/algebra/introduction-to-polynomial-expressions/adding-and-subtracting-polynomials/v/subtracting-polynomials

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- Multiplying: https://www.khanacademy.org/math/algebra/introduction-to-polynomial-expressions/multiplying-binomials-2/v/multiplying-binomials

_____5) Basic factoring and GCF

- GCF: https://www.khanacademy.org/math/algebra/polynomial-factorization/factoring-polynomials-1-common-factors/v/factoring-linear-binomials
- Basic Factoring: https://www.khanacademy.org/math/algebra/polynomial-factorization/factoring-quadratics-1/v/factoring-simple-quadratic-expression

_____6) Factoring with a coefficient and special products

- With a coefficient: https://www.khanacademy.org/math/algebra/polynomial-factorization/factoring-quadratics-2/v/factoring-trinomials-by-grouping-4
- Special Products (difference of squares): https://www.khanacademy.org/math/algebra/polynomial-factorization/factoring-polynomials-3-special-product-forms/v/u09-l2-t1-we3-factoring-special-products-3

Unit 3: Graphing Polynomials

_____7) Graphing Quadratics (all forms)

- Vertex form: https://www.khanacademy.org/math/algebra/quadratics/vertex-form-alg1/v/graphing-a-parabola-in-vertex-form
- Standard form: https://www.khanacademy.org/math/algebra/quadratics/quad-standard-form-alg1/v/graphing-a-parabola-using-roots-and-vertex
- Factored form: https://www.khanacademy.org/math/algebra/quadratics/factored-form-alg1/v/graphing-quadratics-in-factored-form

_____8) Write a quadratic equation from a graph or description

- https://www.khanacademy.org/math/algebra/quadratics/transforming-quadratic-functions/v/shifting-and-scaling-parabolas

_____9) Interpret the vertex and intercepts in context

- https://www.khanacademy.org/math/algebra/quadratics/features-of-quadratic-functions/v/comparing-features-of-functions-2-example-2