

FINAL EXAM REVIEW CHART

I can ...	Example/definition/formula/notes...	I can do this 😊	I need to review this !!!
classify numbers as: <ul style="list-style-type: none"> • Real • Not real • Rational • Irrational • Integers • Whole • Natural 			
... use appropriate symbols to show what sets (categories) any given number belongs to.			
... given 3 examples of: <ul style="list-style-type: none"> • Real numbers • Not real numbers • Rational numbers • Irrational numbers • Integers • Whole numbers • Natural numbers 			
... express any number as a product of its prime numbers.			

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... determine and justify whether a number is a perfect cube or a perfect square number.			
... define a prime number.			
... give 10 examples of prime numbers.			
... use prime factorization to find the least common multiple of two or three numbers. (LCM)			
... use prime factorization to find the greatest common factor of two or three numbers. (GCF)			

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<p>... apply exponent laws to simplify and/or evaluate expressions that involve integral exponents.</p> <ul style="list-style-type: none"> • Product law • Quotient law • Power law • Negative exponents expressed as positive exponents. • Any non-zero base raised to the power of zero • A negative base raised to an even exponent • A negative base raised to an odd exponent • A product raised to an exponent • A quotient raised to an exponent • A positive one raised to any exponent • A negative one raised to an even/odd exponent 			

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... simplify an expression and express it using only positive exponents and fractions.			
... list first 20 perfect square numbers.			
... list first 10 cube numbers.			
... function and relation Definition, difference, similarities.			
... express the domain in words (L1), as an interval (L2 and 3) or using set notation (L4) given a graph.			
... express the range in words (L1), as an interval (L2 and 3) or using set notation (L4) given a graph.			
... explain what an input of a relation is.			
... explain what an output of a relation is.			

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... give 5 examples of a graph that shows a relation that is not a function.			
... carry out the vertical line test.			
... give 5 examples of a graph that shows a relation that is a function.			
... explain what the domain of a relation is.			
... explain what the range of a relation is.			
... graph a line given an equation in: <ul style="list-style-type: none"> • Slope-intercept form • General form • Standard form • Point-Slope form 			
... use algebra to change any form of a linear equation to any other form of the equation.			
... determine if two lines are parallel given two equations.			

I can ...	Example/definition/formula/notes...	I can do this ☺	I need to review this !!!
... determine whether two lines are perpendicular given two equations.			
... use algebra to determine the coordinates of the x-intercept of a line given its equation in any form.			
... use algebra to determine the coordinates of the y-intercept of a line given its equation in any form.			
... graph a horizontal line given its equation.			
... graph a vertical line given its equation.			
... explain why a vertical line is the only line that is not a linear function.			
... calculate the slope of a line given two points a line passes through.			
... identify the slope of a line given its equation.			

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... identify the slope of a line given its graph.			
... explain how negative/positive/zero/undefined slope relate to the end-behaviour of a line. (decreasing/increasing/horizontal/vertical)			
... use the function notation: $f(x)$			
... determine whether a system of two linear equations has one solution, no solution or infinitely many solutions.			
... determine whether a point (its coordinates) is a solution to a system of linear equations.			
... determine the solution to the system of linear equations given the graphs of the two equations.			
... determine the solution to the system of linear equations by graphing.			
... determine the solution to the system of linear equations by substitution.			
..... determine the solution to the system of linear equations by elimination.			

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... explain why a graph of a linear function has to have arrows.			
... explain what a y-intercept is and give an example of a graph that does not have a y-intercept.			
... explain what an x-intercept is and give an example of a graph that does not have an x-intercept.			
... determine whether a given expression is a polynomial.			
... determine the leading term of a polynomial.			
... determine the degree of a polynomial.			
... determine the constant term of a polynomial.			
... define a polynomial.			
... given an example of: <ul style="list-style-type: none"> • Monomial • Binomial • Trinomial • A polynomials that is not any of the three above 			

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... add two polynomials.			
... subtract two polynomials.			
... apply the distributive property: <ul style="list-style-type: none"> • Monomial multiplied by a binomial or trinomial. • Binomial multiplied by a binomial. (FOIL) 			
... collect like terms.			
... factor a polynomial using the greatest common factor.			
... factor a negative GCF from a polynomial.			
... recognize a binomial that can be expressed as a difference of squares.			
... factor the difference of squares.			

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... write a conjugate given a binomial.			
... factor a trinomial by inspection.			
... factor a polynomial by combining the GCF and DOS.			
... factor a polynomial by combining the GCF and inspection.			
... label a right-angled triangle with one identified acute angle. (O-A-H)			
... use any of the basic trigonometric ratios to find a side length given an angle and one side length in a right-angled triangle.			
... solve a right-angled triangle without the Pythagorean Theorem.			
...explain what SOH CAH TOA stands for.			

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... explain the difference between an acute and obtuse angle and acute and obtuse triangle.			
... determine the third interior angle in any triangle drawn on a 2D plane given two interior angles.			
... explain the difference of the angle of elevation and angle of depression.			
... use the inverse of any of the basic trigonometric ratios to find the degree measure of an angle given two side lengths in a right-angled triangle.			
... use the formula: $t_n = t_1 + (n - 1)d$ to solve for any missing variable given enough information about an arithmetic sequence.			
... describe an arithmetic sequence.			
... give 5 examples of an arithmetic sequence.			

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... give 5 examples of a sequence that is not arithmetic and explain why the sequence cannot be described as arithmetic.			
... find the value of the first term in an arithmetic sequence given information about two terms in the sequence,			
... find the placement of a term given its value and some additional information about the sequence.			
... find the common difference given several consecutive terms in an arithmetic sequence.			
... find the common difference in an arithmetic sequence given information about two terms in the sequence.			
... graph an arithmetic sequence given an equation for the general term: $t_n = t_1 + (n - 1)d$			
... honestly say that I have always tried my best to learn the new material.			

