

Video Links for Math 106 Week 1 Preparation Packet

ADDING AND SUBTRACTING INTEGERS (SIGNED NUMBERS)

You should watch the videos and you can then practice and get immediate feedback.

Video 1: Adding and subtracting Integers Main page: <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers-add-and-subtract#cc-7th-sub-neg-intro>

Video 2: Adding and subtracting negative numbers video:

<https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers-add-and-subtract/cc-7th-sub-neg-intro/v/adding-and-subtracting-negative-number-examples>

OPERATIONS WITH POLYNOMIALS

Video 3 Operations with Polynomials main page : <https://www.khanacademy.org/test-prep/sat/x0a8c2e5f:untitled-652/x0a8c2e5f:passport-to-advanced-math-lessons-by-skill/a/gtp--sat-math--article--operations-with-polynomials--lesson>

Video 4- adding and subtracting polynomials

<https://www.khanacademy.org/math/algebra2/x2ec2f6f830c9fb89:poly-arithmetic/x2ec2f6f830c9fb89:poly-add-sub/v/adding-and-subtracting-polynomials-1>

Video 5: Distribute property multiplying polynomials -

<https://www.khanacademy.org/math/algebra2/x2ec2f6f830c9fb89:poly-arithmetic/x2ec2f6f830c9fb89:mono-by-poly/v/multiplying-monomials-by-polynomials>

Video 6: Multiplying Binomials <https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:quadratics-multiplying-factoring/x2f8bb11595b61c86:multiply-binomial/v/multiplying-binomials>

FACTORING:

Video 7: GCF Factoring <https://www.khanacademy.org/math/algebra2/x2ec2f6f830c9fb89:poly-factor/x2ec2f6f830c9fb89:common-factor/v/factoring-and-the-distributive-property-3>

Video 8- factoring a binomial as the difference of two squares:

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:quadratics-multiplying-factoring/x2f8bb11595b61c86:factor-difference-squares/v/difference-of-squares-intro>

Video 9 Factoring Trinomials by Trial and Error Method

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:quadratics-multiplying-factoring/x2f8bb11595b61c86:factor-quadratics-intro/v/factoring-quadratic-expressions>

Video 10 Factoring Trinomials by Grouping or “AC method”

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:quadratics-multiplying-factoring/x2f8bb11595b61c86:factor-quadratics-grouping/v/factoring-trinomials-by-grouping-4>

RATIONAL NUMBERS (FRACTIONS):

Video 11: ORDERING RATIONAL NUMBERS:

<https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-negative-number-topic/x0267d782:ordering-rational-numbers/v/ordering-rational-numbers>

VIDEO 12: Converting between mixed numbers and improper fractions:

<https://www.khanacademy.org/math/cc-fourth-grade-math/imp-fractions-2/imp-mixed-numbers/v/changing-a-mixed-number-to-an-improper-fraction>

Video 13: Finding Equivalent Fractions

<https://www.khanacademy.org/math/cc-fourth-grade-math/comparing-fractions-and-equivalent-fractions>

Video 14: Simplifying Fractions: https://www.youtube.com/watch?v=WPimvspI0_c

Video 15: Converting to mixed numbers: <https://www.khanacademy.org/math/cc-fourth-grade-math/imp-fractions-2/imp-mixed-numbers/v/changing-an-improper-fraction-to-a-mixed-number>

Video 16: Finding the LCM <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-expressions-and-variables/cc-6th-lcm/v/least-common-multiple-exercise>

Video 17: Adding and Subtracting Fractions with Different Denominators:

<https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers-add-and-subtract#cc-7th-add-sub-neg-fractions>

Video 18: Multiplying Fractions <https://www.khanacademy.org/math/cc-fifth-grade-math/5th-multiply-fractions/imp-multiplying-fractions/v/multiplying-fractions>

Video 19 Dividing Fractions: <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations/cc-6th-dividing-fractions/v/dividing-fractions-example>

SOLVING LINEAR EQUATIONS:

Video 20 Solving Linear Equations: <https://www.khanacademy.org/math/algebra-home/alg-basic-ineq/alg-old-school-equations/v/algebra-linear-equations-1>

EXPONENTS:

Video 21 Negative exponents: [https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations/cc-8th-pos-neg-exponents/v/negative-exponents#:~:text=A%20positive%20exponent%20tells%20us,2%E2%81%B4\)%20%3D%201%2F16](https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations/cc-8th-pos-neg-exponents/v/negative-exponents#:~:text=A%20positive%20exponent%20tells%20us,2%E2%81%B4)%20%3D%201%2F16).

Video 22 Product and Power Rules: <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations/cc-8th-exponent-properties/v/exponent-properties-involving-products>

Video 23 Quotient Rule: <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations/cc-8th-exponent-properties/v/exponent-properties-involving-quotients>

Video 24: Exponent Properties with parentheses <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations/cc-8th-exponent-properties/v/products-and-exponents-raised-to-an-exponent-properties>

SIMPIFYING ROOTS:

Video 25 cube roots <https://www.khanacademy.org/math/class-8-math-assamese/x6508f27e90d41441:cubes-and-cube-roots/x6508f27e90d41441:cube-roots-using-factorisation/v/introduction-to-cube-roots>

Video 26 Simplifying Square Roots: <https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:simplifying-square-roots/v/simplifying-square-roots-1>