M2

SIGNED NUMBERS

KhanAcademy Youtube channel Links

<https://www.youtube.com/watch?v=Hlal9ME2Aig> Negative numbers and absolute value

<https://www.youtube.com/watch?v=NQSN00zL5gg> Adding and subtracting negative numbers

<https://www.youtube.com/watch?v=47wjId9k2Hs> Multiplying positive and negative numbers

<https://www.youtube.com/watch?v=bQ-KR3clFgs> Dividing positive and negative numbers

ORDER OF OPERATIONS

KhanAcademy Youtube channel link

<https://www.youtube.com/watch?v=ClYdw4d4OmA> Introduction to order of operations

<https://www.youtube.com/watch?v=piIcRV2dx7E> PEMDAS | Arithmetic properties

EVALUATING ALGEBRAIC EXPRESSIONS

KhanAcademy Youtube channel link

<https://www.youtube.com/watch?v=S_OX3ByvBSc>

SETTING UP EQUATION FROM PHRASES

KhanAcademy Youtube channel link

<https://www.youtube.com/watch?v=640-86yn2wM>

<https://www.youtube.com/watch?v=Q1vMNyIP4Us> How to write expressions with variables

<https://www.youtube.com/watch?v=xLYVo_k0_us> expressions with parentheses

LINEAR EQUATIONS; LITERAL EQUATIONS

KhanAcademy Youtube channel link

One step:

<https://www.youtube.com/watch?v=jWpiMu5LNdg>

<https://www.youtube.com/watch?v=VidnbCEOGdg>

<https://www.youtube.com/watch?v=XD-FDGdWnR8>

<https://www.youtube.com/watch?v=9Ek61w1LxSc>

<https://www.youtube.com/watch?v=DqeMQHomwAU>

<https://www.youtube.com/watch?v=a3acutLstF8>

two step:

<https://www.youtube.com/watch?v=XoEn1LfVoTo>

<https://www.youtube.com/watch?v=p5e5mf_G3FI>

variable on both sides:

<https://www.youtube.com/watch?v=f15zA0PhSek>

<https://www.youtube.com/watch?v=1c5HY3z4k8M>

<https://www.youtube.com/watch?v=PL9UYj2awDc> (with fractions)

<https://www.youtube.com/watch?v=YZBStgZGyDY> (with parentheses)

LINEAR INEQUALITY

KhanAcademy Youtube channel link

<https://www.youtube.com/watch?v=ilWDSYnTEFs> How to plot inequalities on a number line

<https://www.youtube.com/watch?v=dTwZ5N126gw> plotting a simple inequality

<https://www.youtube.com/watch?v=PNXozoJWsWc> Multiplying and dividing with inequalities

<https://www.youtube.com/watch?v=D1cKk48kz-E> Multiplying and dividing with inequalities

<https://www.youtube.com/watch?v=y7QLay8wrW8> Solving a two-step inequality

<https://www.youtube.com/watch?v=xOxvyeSl0uA> Multi-step inequalities

<https://www.youtube.com/watch?v=XOAn5z8mkvI> Multi-step inequalities

<https://www.youtube.com/watch?v=SgKBBUFaGb4> Multi-step inequalities

<https://www.youtube.com/watch?v=cvB8b4AACyE> Compound inequalities

INTEGER EXPONENTS

KhanAcademy Youtube links

<https://www.youtube.com/watch?v=XZRQhkii0h0> Introduction to exponents

<https://www.youtube.com/watch?v=5qfOViJda_g> Exponent example 1

<https://www.youtube.com/watch?v=dAvosUEUH6I> Raising a number to the 0 and 1st power

<https://www.youtube.com/watch?v=o_urKmMdGK0> Exponents of decimals

<https://www.youtube.com/watch?v=9K54G5yeR74> Evaluating exponent expressions with variables

SQUARE ROOTS

KhanAcademy Youtube links

<https://www.youtube.com/watch?v=mbc3_e5lWw0> Introduction to square roots

<https://www.youtube.com/watch?v=cw3mp8oNASk> Simplifying square roots

<https://www.youtube.com/watch?v=s9ppnjgmiyk> Rewriting square root of fraction

<https://www.youtube.com/watch?v=74iuGIaBgRc> Simplifying radicals examples

ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION OF POLYNOMIALS

KhanAcademy Youtube links

Combining like terms

<https://www.youtube.com/watch?v=CLWpkv6ccpA> Combining like terms introduction

<https://www.youtube.com/watch?v=FNnmseBlvaY>

<https://www.youtube.com/watch?v=3NHSwiv_pSE> combining like terms and the distributive property

Addition

<https://www.youtube.com/watch?v=ahdKdxsTj8E>

Subtraction

<https://www.youtube.com/watch?v=5ZdxnFspyP8>

Multiplication

<https://www.youtube.com/watch?v=pD2-H15ucNE> Multiplying a monomial by a polynomial

<https://www.youtube.com/watch?v=Xy8NKUoyy98> Multiplying binomials intro

<https://www.youtube.com/watch?v=ZMLFfTX615w> Multiplying a binomial

<https://www.youtube.com/watch?v=JfuisfEdnjk> Special products (x+a)(x-a)

<https://www.youtube.com/watch?v=xH_GllPuymc> Squaring binomials of the form (x+a)²

Division

<https://www.youtube.com/watch?v=4Eax48gDg9g> Simplifying monomials

<https://www.youtube.com/watch?v=XFwQV-KCudw> common monomial factors

<https://www.youtube.com/watch?v=FXgV9ySNusc> Polynomial division

FACTORING BY GROUPING

KhanAcademy Youtube links

<https://www.youtube.com/watch?v=tDlzWNtRzS8> common binomial factor

<https://www.youtube.com/watch?v=HXIj16mjfgk> Factor a polynomial with two variables

<https://www.youtube.com/watch?v=d-2Lcp0QKfI> Factoring quadratics

FACTORING THE GREATEST COMMON FACTOR

KhanAcademy Youtube links

<https://www.youtube.com/watch?v=mbb3msmX2xs> Factor a linear binomial

<https://www.youtube.com/watch?v=iTn3TTF0IXk> Factoring binomials

<https://www.youtube.com/watch?v=MZl6Mna0leQ> Factor a polynomial with two variables

FACTORING DIFFERENCE OF TWO SQUARES

KhanAcademy Youtube links

<https://www.youtube.com/watch?v=tvnOWIoeeaU> Factoring a difference of squares

<https://www.youtube.com/watch?v=YahJQvY396o> Factoring a difference of squares with two variables

<https://www.youtube.com/watch?v=jmbg-DKWuc4> Factor completely a difference of squares

FACTORING QUADRATIC TRINOMIALS

KhanAcademy Youtube links

<https://www.youtube.com/watch?v=D3a8NnpQ2vU> Factoring quadratics as (x+a)(x+b)

<https://www.youtube.com/watch?v=1kfq0aR3ASs> Factoring quadratics as (x+a)(x+b)

<https://www.youtube.com/watch?v=eF6zYNzlZKQ> More examples of factoring quadratics leading coefficient of 1

<https://www.youtube.com/watch?v=4STGvuoBi5U> Identifying perfect square form

<https://www.youtube.com/watch?v=XuwldEyWjH0> Factoring quadratics as a perfect square of a sum

<https://www.youtube.com/watch?v=liRNTieIU_k> Factoring quadratics as a perfect square of difference

<https://www.youtube.com/watch?v=BFW2lHobO4E> Factoring perfect squares: common factor

Factor quadratics by grouping (ac method)

<https://www.youtube.com/watch?v=X7B_tH4O-_s>

<https://www.youtube.com/watch?v=u1SAo2GiX8A>

<https://www.youtube.com/watch?v=R-rhSQzFJL0> Factoring quadratics by taking a common factor and grouping

QUADRATIC EQUATIONS

KhanAcademy Youtube links

<https://www.youtube.com/watch?v=2ZzuZvz33X0> Solving a quadratic equation by factoring

<https://www.youtube.com/watch?v=KbFwLvCOBUI> Solving a quadratic equation by factoring

EQUATION OF THE LINE

KhanAcademy Youtube links

<https://www.youtube.com/watch?v=qk69pR91R00> Checking ordered pair solutions to equations

<https://www.youtube.com/watch?v=d3VMo1VWFvc> Checking ordered pair solutions

<https://www.youtube.com/watch?v=AOxMJRtoR2A> Two-variable linear equations and their graphs

intro to intercepts

<https://www.youtube.com/watch?v=LNSB0N6esPU> Introduction to intercepts

<https://www.youtube.com/watch?v=xiIQQNufFuU> Finding the x-intercept

<https://www.youtube.com/watch?v=xGmef7lFc5w> Finding intercepts from an equation

<https://www.youtube.com/watch?v=CGZZINHT0I8> Finding intercepts from a table

intro to slopes

<https://www.youtube.com/watch?v=MeU-KzdCBps> Introduction to slope

<https://www.youtube.com/watch?v=EQoNfxToez0> Positive and negative slope

<https://www.youtube.com/watch?v=R948Tsyq4vA> Finding the slope of a line from its graph

<https://www.youtube.com/watch?v=WkspBxrzuZo> Slope from two ordered pairs example 1

<https://www.youtube.com/watch?v=Iqws-qzyZwc> Slope and rate of change

horizontal/vertical line

<https://www.youtube.com/watch?v=CFSHq099Mx0>

<https://www.youtube.com/watch?v=J43CIbKpdWc>

slope intercept form

<https://www.youtube.com/watch?v=IL3UCuXrUzE> Slope-intercept form

<https://www.youtube.com/watch?v=qgsNNqmlLoA> slope-intercept intro

<https://www.youtube.com/watch?v=uk7gS3cZVp4> Graph from slope-intercept

<https://www.youtube.com/watch?v=AqFwKecNaTk> equation line from slope and point

<https://www.youtube.com/watch?v=XMJ72mtMn4Y> equation of line from two points

<https://www.youtube.com/watch?v=5fkh01mClLU> y=mx+b examples

standard form

<https://www.youtube.com/watch?v=6CFE60iP2Ug> Standard form for linear equations

<https://www.youtube.com/watch?v=86NwKBcOlow> Graphing solutions

<https://www.youtube.com/watch?v=XOIhNVeLfWs> Converting to standard form

slope from equation

<https://www.youtube.com/watch?v=G4r9PpYQiL8> Slope from equation

<https://www.youtube.com/watch?v=-6Fu2T_RSGM> Writing equations in all forms

SYSTEM OF EQUATIONS; FUNCTION NOTATION; DOMAIN

KhanAcademy Youtube links

<https://www.youtube.com/watch?v=SkMNREAMNvc> Checking solutions to systems of equations

<https://www.youtube.com/watch?v=NPXTkj75-AM> Solving system with elimination

<https://www.youtube.com/watch?v=wYrxKGt_bLg> elimination (and manipulation)

<https://www.youtube.com/watch?v=GWZKz4F9hWM> linear equations with substitution