

Glossary

High School Level Integrated Algebra Glossary

English | Spanish

Translation of Integrated Algebra terms based on the Coursework for
Integrated Algebra Grades 9 to 12.



This glossary is to PROVIDE PERMITTED TESTING ACCOMMODATIONS of ELL/MLL students. It should also be used for INSTRUCTION during the school year. The glossary may be downloaded, printed and disseminated to educators, parents and ELLs/MLLs.

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Integrated Algebra

| English | Spanish |
|----------------------------|---|
| Problem Solving | Resolución de problemas |
| algebraically | algebraicamente |
| concept | concepto |
| conjecture | conjetura (formule una conjetura) |
| constraint | límite |
| equivalent | equivalente |
| formulate | formular |
| generalization | generalización |
| graphically | gráficamente |
| multiple representations | representaciones múltiples |
| numerically | numéricamente |
| parameter | parámetro |
| pattern | patrón |
| relative efficiency | eficacia relativa |
| strategy | estrategia |
| verbally | verbalmente |
| Reasoning and Proof | Razonamiento y prueba |
| appropriate | según corresponda |
| approximation | aproximación |
| argument | (sustantivo) argumento, (verbo) argumentar, argumente |
| claim | reclamación |
| conclusion | conclusión |
| conjecture | conjetura (formule una conjetura) |
| counterexample | contraejemplo |
| explain | explicar (explique) |
| inductive reasoning | razonamiento inductivo |
| logical argument | argumento lógico |
| mathematical conjecture | conjetura matemática |
| proof | prueba |
| refute | refutar (refute) |
| systematic approach | aproximación sistemática |
| validity | validez |

Integrated Algebra

| English | Spanish |
|----------------------------------|---|
| Venn diagram | diagrama de Venn |
| verify | verificar (verifique) |
| Communication | Comunicación |
| accuracy | exactitud |
| analyze | analizar (analice) |
| argument | (sustantivo) argumento, (verbo) argumentar, argumente |
| coherent | coherente |
| communicate | comunicar (comunique) |
| comprehension | comprensión |
| conclusion | conclusión |
| conjecture | conjetura (formule una conjetura) |
| decoding | decodificar (decodifique) |
| elicit | obtener (obtenga) |
| equation | ecuación |
| evaluate | evaluar |
| extend | extender (extienda) |
| formula | fórmula |
| function | función |
| graph | gráfico |
| interpretation | interpretación |
| mathematical visual | visual matemático |
| rationale | fundamento lógico, base, fundamento |
| standard (mathematical) notation | notación estándar (matemática) |
| strategy | estrategia |
| table | tabla |
| technical writing | redacción técnica |
| terminology | terminología |
| valid | válido |
| Connections | Conexiones |
| coherent whole | conjunto coherente |
| concept | concepto |
| connection | conexión |

Integrated Algebra

| English | Spanish |
|-----------------------------|--|
| formulate | formular |
| physical model | modelo físico |
| procedure | procedimiento |
| quantitative model | modelo cuantitativo |
| representation | representación |
| Representation | Representación |
| angle of elevation | ángulo de elevación |
| array | matriz, ordenación |
| chart | tabla |
| compare | comparar |
| diagram | diagrama |
| equation | ecuación |
| function | función |
| graph | gráfico |
| interpret | interpretar (interprete) |
| mathematical phenomena | fenómeno matemático |
| organize | organizar (organice) |
| physical phenomena | fenómeno de la física |
| profit | ganancia |
| record | (sustantivo) expediente o archivo, (verbo) anote o indique |
| social phenomena | fenómeno social |
| symbol | símbolo |
| table | tabla |
| technology | tecnología |
| translate | descifre, transforme |
| Number Sense and Operations | Sentido numérico y operaciones numéricas |
| absolute value | valor absoluto |
| algebraic problem | problema algebraico |
| arithmetic operation | operación aritmética |
| arrangements (permutations) | arreglos (permutaciones) |
| associative property | propiedad asociativa |
| closure property | propiedad de clausura |

Integrated Algebra

| English | Spanish |
|----------------------------------|---|
| commutative property | propiedad conmutativa |
| counting techniques | técnicas de conteo |
| decimal | decimal |
| denominator | denominador |
| discount | descuento |
| distributive property | propiedad distributiva |
| exponential expression | expresión exponencial |
| expression | expresión |
| factorial | factorial |
| field | campo |
| fraction | fracción |
| Fundamental Counting Principle | principio básico de conteo |
| group | grupo |
| identity property | propiedad de identidad |
| inverse property | propiedad inversa |
| like/unlike radical terms | términos radicales semejantes o distintos |
| number theory | teoría numérica |
| numerator | numerador |
| percent of increase/decrease | por ciento de aumento o disminución |
| product | producto |
| properties of the Real numbers | propiedades de los números reales |
| proportionality/direct variation | variación proporcional o directa |
| quotient | cociente |
| radical | radical |
| radicand | radicando (sustantivo) |
| real numbers | números reales |
| scientific notation | notación científica |
| simplest form | expresión mínima |
| variable | variable |
| Algebra | Álgebra |
| acute angle | ángulo agudo |
| adjacent side/angle | lado o ángulo adyacente |
| algebraic equation | ecuación algebraica |
| algebraic expression | expresión algebraica |

Integrated Algebra

| English | Spanish |
|-----------------------------------|---|
| algebraic fraction | fracción algebraica |
| analyze | analizar (analice) |
| axis of symmetry | eje de simetría |
| binomial | binomio |
| coefficient | coeficiente |
| common base | base común |
| complement of a subset | complemento de un subconjunto |
| coordinates | coordenadas |
| cosine | coseno |
| dependent | dependiente |
| difference of two perfect squares | diferencia de dos cuadrados perfectos |
| element | elemento |
| equation | ecuación |
| exponent | exponente |
| exponential growth and decay | crecimiento y decrecimiento exponencial |
| expression | expresión |
| factoring | descomponer en factores |
| fractional expression | expresión fraccional |
| greatest common factor (GCF) | máximo común divisor |
| hypotenuse | hipotenusa |
| independent variable | variable independiente |
| inequality | inecuación |
| integer | número entero |
| integral coefficient | coeficiente entero |
| integral exponent | potencia de números enteros |
| integral root(s) | raíz(ces) cuadrada(s) de números enteros |
| intersection of sets | intersección de conjuntos |
| interval notation | notación por intervalos |
| lead coefficient | coeficiente principal |
| legs of a right triangle | catetos de un triángulo rectángulo |
| line parallel to the x- or y-axis | línea paralela al eje "x" o "y" |
| linear equation in one variable | ecuación lineal de una variable (o incógnita) |
| linear inequality in one variable | inecuación lineal de una variable (o incógnita) |

Integrated Algebra

| English | Spanish |
|-------------------------------------|------------------------------------|
| literal equation | ecuación literal |
| lowest terms fraction | fracción de términos simplificados |
| monomial | monomio |
| multiplication property of zero | propiedad multiplicativa del cero |
| opposite side/angle | lado o ángulo opuesto |
| parabola | parábola |
| parallel | paralelo(a) |
| polynomial | polinomio |
| product | producto |
| properties of exponents | propiedades de exponentes |
| proportion | proporción |
| Pythagorean Theorem | Teorema de Pitágoras |
| quadratic equation | ecuación cuadrática |
| quantitative | cuantitativo(a) |
| quotient | cociente |
| ratio | proporción o porcentaje |
| relation | relación |
| right angle | ángulo recto |
| right triangle | triángulo recto |
| root(s) of an equation | raíz(ces) de una ecuación |
| roster form | lista de presencia |
| set | conjunto |
| set-builder notation | notación de conjuntos |
| sine | seno |
| slope | pendiente (sustantivo) |
| solution set | conjunto de soluciones |
| subset | subconjunto |
| sum | suma |
| system of linear inequalities | sistema de inecuaciones lineales |
| systems of linear equations | sistemas de ecuaciones lineales |
| tangent | tangente |
| translate (from verbal to symbolic) | transfiera o interprete |
| trigonometry | trigonometría |
| trinomial | trinomio |

Integrated Algebra

| English | Spanish |
|--------------------------------|---------------------------------|
| undefined | no definido |
| union of sets | unión de conjuntos |
| universal set | conjunto universal |
| variable | variable |
| verbal expression | expresión verbal |
| verbal sentence | oración verbal |
| vertex | vértice |
| x-axis | eje "x" |
| y-axis | eje "y" |
| Geometry | Geometría |
| absolute value function | función de valor absoluto |
| angle | ángulo |
| area | área |
| axis of symmetry of a parabola | eje de simetría de una parábola |
| circle | círculo |
| coefficient | coeficiente |
| cylinder | cilindro |
| decagon | decágono |
| exponential function | función exponencial |
| function | función |
| generalize | generalizar (generalice) |
| geometric shape | figura geométrica |
| graph of a relation | gráfico de una relación |
| hexagon | hexágono |
| investigate | investigar (investigue) |
| nonagon | nonágono |
| octagon | octágono |
| ordered pair | par ordenado |
| parabolic function | función parabólica |
| parallelogram | paralelogramo |
| pentagon | pentágono |
| perimeter | perímetro |
| polygon | polígono |
| quadrilateral | cuadrilátero |

Integrated Algebra

| English | Spanish |
|-------------------------------|----------------------------------|
| quarter-circle | cuarto de círculo |
| rational coefficient | coeficiente racional |
| rectangle | rectángulo |
| rectangular solid | sólido rectangular |
| regular polygon | polígono regular |
| relation | relación |
| rhombus | rombo |
| roots of a parabolic function | raíces de una función parabólica |
| sector of a circle | sector de un círculo |
| semi-circle | semicírculo |
| spatial reasoning | razonamiento espacial |
| square | cuadrado |
| surface area | área de superficie |
| trapezoid | trapecio |
| triangle | triángulo |
| vertex | vértice |
| visualization | visualización |
| volume | volumen |
| Measurement | Medición |
| appropriate unit | unidad correspondiente |
| conversion | conversión |
| cubic unit | unidad cúbica |
| error | error |
| linear measure | medida lineal |
| linear unit | unidad lineal |
| magnitude | magnitud |
| measurement system | sistema de medición |
| rate | tasa |
| relative error | error relativo |
| square unit | unidad cuadrada |
| unit | unidad |
| Statistics and Probability | Estadísticas y probabilidad |
| appropriateness | carácter apropiado |
| biased | parcial, prejuiciado |

Integrated Algebra

| English | Spanish |
|---|---|
| bivariate | bivariado |
| box-and-whisker plot | diagrama de caja y bigotes |
| calculated probability | probabilidad calculada |
| categorize | clasificar (clasifique) |
| causation | causalidad |
| central tendency | tendencia central |
| complement | complemento |
| conditional probability | probabilidad condicional |
| correlation | correlación |
| cumulative frequency distribution table | tabla de distribución de frecuencias acumuladas |
| cumulative frequency histogram | histograma de frecuencias acumuladas |
| data | datos |
| dependent events | eventos dependientes |
| dependent variable | variable dependiente |
| element | elemento |
| empirical probability | probabilidad empírica |
| experimental design | diseño experimental |
| extrapolation | extrapolación |
| favorable event | evento favorable |
| finite sample space | espacio muestral finito |
| five statistical summary | resumen estadístico de cinco datos |
| frequency distribution table | tabla de distribución de frecuencias |
| histogram | histograma |
| independent events | eventos independientes |
| independent variable | variable independiente |
| interpolation | interpolación |
| line of best fit | línea de ajuste óptimo |
| linear transformation | transformación lineal |
| maximum | máximo |
| mean | media |
| measure of central tendency | medida de tendencia central |
| median | mediana |
| minimum | mínimo |

Integrated Algebra

| English | Spanish |
|---|---|
| mode | modo |
| mutually exclusive events | eventos mutuamente excluyentes |
| not mutually exclusive events | eventos mutuamente no excluyentes |
| percentile rank | rango percentil |
| probability | probabilidad |
| qualitative | cualitativo(a) |
| quantitative | cuantitativo(a) |
| quartiles (specifically: first, second, third or lower, middle, upper) | cuarteles (específicamente: primero, segundo, tercero o inferior, medio o superior) |
| range | rango o amplitud |
| sample space | espacio de muestra |
| scatter plot | diagrama de puntos |
| series | serie |
| univariate | univariado |

NYS Grades 9 – 12 Math Terms Addenda

| Common Core Math Standard | ENGLISH | SPANISH |
|---------------------------|---|---|
| F-IF.C.8 | absolute-value function | función de valor absoluto |
| S-REI.A.2 | algebraic manipulation | manipulación algebraica |
| S-ID.B.5 | categorical data | datos categóricos |
| N.C.N.4 | complex plane | plano complejo |
| S-ID.B.5 | conditional relative frequency | frecuencia relativa condicional |
| N.C.N.5 | conjugation of complex numbers | conjugación de números complejos |
| F-LE.A.1 | constant percent rate | tasa porcentual constante |
| S-ID.C.9 | correlation and causation | correlación y causalidad |
| S-ID.C.8 | correlation coefficient | coeficiente de correlación |
| N-Q.A.3 | data point | punto de datos |
| N-Q.A.2 | descriptive modeling | modelización descriptiva |
| A-SSE.A.1 | difference of squares, example: $(a^2 - b^2)$ | diferencia de cuadrados, ejemplo: $(a^2 - b^2)$ |
| A-SSE.B.3 | equivalent monthly interest rate | tasa de interés mensual equivalente |
| F-Bf.B.3 | even function | función par |
| A-CED.A.1 | exponential equation | ecuación exponencial |
| S-ID.B.6 | fit of a function | ajuste de una función |
| A-REI.D.12 | half-plane | semiplano |
| N-V.M.6 | incidence relationship (payoff) | relación de incidencia (saldo) |
| S-ID.B.5 | joint frequency | frecuencia conjunta |
| S-ID.C.8 | linear fit | regresión lineal |
| S-ID.C8 | linear phenomenon | fenómeno lineal |
| S-ID.C8 | linearity | linealidad |
| A-REI.D.11 | logarithm function | función logarítmica |
| S-ID.B.5 | marginal frequency | frecuencia marginal |
| A-CED.A.3 | non-viable options (inequalities) | opciones inviables (desigualdades) |
| N-RN.B.3 | non-zero rational number | número racional distinto de cero |
| F-BF.B.3 | odd function | función impar |
| F-IF.C.8 | piece-wise defined function | función definida por partes |
| F-BF.A.1 | recursive process | proceso recursivo |
| S-ID.B.6 | residuals | residuos |
| A-SSE.A.1 | square of a difference, example: $(a - b)^2$ | cuadrado de la resta, ejemplo: $(a-b)^2$ |
| F-IF.C.8 | step function | función escalonada |
| A-REI.A.1 | viable argument | argumento viable |
| A-CED.A.3 | viable options (inequalities) | opciones viables (desigualdades) |

KEYS

N-Q = Number & Quantity
 SSE = Seeing Structures in Expressions
 RN = Real Number System
 BF = Building Functions
 ID = Interpreting categorical and quantitative Data
 CED = Creating Equations Describing numbers or relationships

REI = Reasoning with Equations & Inequality
 VM = Vectors & Matrix quantities
 IF = Interpreting Functions
 ID = Interpreting categorical and quantitative Data
 APR = Arithmetic with Polynomials & Relational expressions