

Integrated Mathematics II

Standard 1

Algebra and Functions

CORE STANDARD

Linear and Absolute Value Equations and Inequalities

Solve systems of linear equations and inequalities in three variables by substitution and elimination. Solve problems that can be modeled using systems of linear equations. Solve equations and inequalities involving absolute value.

[Standard Indicators: IM2.1.4, IM2.1.5, IM2.1.7]

CORE STANDARD

Polynomials

Multiply polynomials, factor polynomials and divide a polynomial by a monomial.

[Standard Indicators: IM2.1.9, IM2.1.10]

IM2.1.1 Use and interpret function notation, including evaluation of functions represented by tables, graphs, words, equations or a set of ordered pairs.

Example: Given the function f below, find the indicated value, if possible.

- where f is represented by the set of ordered pairs $\{(3, 5), (2, -3), (1, 7), (0, 2)\}$, find the value of $f(1)$.
- where $f(x) = \sqrt{4-x}$, find the value of $f(2)$ and $f(8)$.

IM2.1.2 Recognize and describe the relationships among the solutions of an equation, the zeros of a function, the x -intercepts of a graph and the factors of a polynomial expression.

Example: Solve the equation $x^4 + x^3 - 7x^2 - x + 6 = 0$, given that $x - 2$ and $x + 3$ are factors of $x^4 + x^3 - 7x^2 - x + 6$.

IM2.1.3 Solve systems of linear equations and inequalities in three variables by substitution and elimination.

Example: Solve the system of equations: $x - 2y + 3z = 5$, $x + 3z = 11$, $5y - 6z = 9$.

IM2.1.4 Solve problems that can be modeled using systems of linear equations in three variables, interpret the solutions and determine whether the solutions are reasonable.

Example: Each week you can work no more than 20 total hours between the local bookstore and the drugstore. You prefer the bookstore and want to work at least 10 more hours there than at the drugstore. Draw a graph to show the possible combinations of hours that you could work.

IM2.1.5 Graph piecewise-defined functions.

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SA Dillow



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