ADP Algebra I and Algebra II End-of-Course Exam Notation Information

The information below is meant to inform teachers, schools, districts, and states about the notation **that students will see on the ADP Algebra I and Algebra II End-of-Course Exams.** It is not meant to exclude acceptable notation from being used in the classroom, but to let teachers know what students should expect to see on the exam. We expect students to be exposed to and use multiple forms of correct notation in their classrooms. In addition, students may answer items using any acceptable form of notation on the exam.

Notation on Both Algebra I and Algebra II End-of-Course Exams

Absolute value functions: $f(x) = -3|x+2| + 1$

Set notation: $\{-1, 0, 4\}$ for solution sets

Negative fractions and rational expressions: $-\frac{2}{3}$ $-\frac{x+1}{x}$

Monomials involving roots and exponents: $x^2 y\sqrt[4]{z^3}$

(x squared multiplied by y multiplied by the fourth root of z cubed)

Notation on Algebra II End-of-Course Exams – Core

Piecewise functions: $f(x) = \begin{cases} x-2, & x \le 0 \\ x+2, & x > 0 \end{cases}$

Greatest Integer Function: $f(x) = [x]$

Exponential functions of base e: $f(x) = 2e^{-0.024x}$

Domain restrictions: When a student is asked only to simplify a rational expression, all expressions are assumed to be defined. If a student is identifying an equivalent expression or solving equations, restrictions on the domain will be a part of the item, either in the question or the answer or both.

Composition of functions: $f(g(x))$

Variables with subscripts involving exponents: $v_0^{\,2}$ $R_1^{\,2}$

ADP Algebra I and Algebra II End-of-Course Exam Notation Information

Notation on Algebra II End-of-Course Exams – Modules

Correlation coefficient: r

Combinations/Permutations: ${}_5C_2$ ${}_5P_2$

Matrix elements: a_{32} for the element in row 3 column 2

Vectors: $(0, 1)$ $\mathbf{u}$ $\mathbf{AB}$ $\overrightarrow{\mathbf{AB}}$

Spreadsheet applications: A1 for column A row 1; * for multiplication; / for division; ^ for exponents