

12.0

3 CST items

Students simplify fractions with polynomials in the numerator and denominator by factoring both and reducing them to the lowest terms.

Key Vocabulary

Polynomial

Numerator

Denominator

Factor (v .)

Reduce

Lowest Terms

Square of a Binomial

Difference of Squares

Instructional Objectives

1	Apply basic factoring techniques to polynomials.	1	Factor: $3xy - 6y^2$
		2	Factor: $x^3 - 3x^2 + 2x$
		3	Factor: $x^2 - 10xy + 25y^2$
		4	Factor: $9x^2 - 1$
2	Simplify fractions by factoring the both numerator and the denominator, and reducing.	1	Simplify: $\frac{x^2 + x - 6}{x^2 - 2x}$
		2	Simplify: $\frac{x^2 - 9x + 18}{x^2 + 4x - 21}$
		3	Simplify: $\frac{6x^2 + 33x + 15}{4x^2 - 1}$
		4	Simplify: $\frac{x^2 - 4xy + 4y^2}{5xy - 10y^2}$