

Simplifying Rational Expressions (A)



Section A Simplify the following algebraic fractions.

$$1) \frac{x(x+3)}{x}$$

$$7) \frac{x(x+5)(x-5)}{(x+5)}$$

$$2) \frac{y(y-8)}{y}$$

$$8) \frac{9y(2y-1)(y-1)}{27y^2(y-1)}$$

$$3) \frac{x(x+5)}{(x+5)}$$

$$9) \frac{x(x+1)(x-1)(x+1)(x-1)}{(x+1)(x-1)}$$

$$4) \frac{8(y-16)}{4}$$

$$10) \frac{8y(y+4)^2}{12y^2(y+4)}$$

$$5) \frac{5(x-7)}{10x(x-7)}$$

$$11) \frac{x(3x-2)}{7x^2(3x-2)^2}$$

$$6) \frac{3x(3x-4)}{18x^2(3x-4)}$$

$$12) \frac{3x^2(5y-3)(y+3)}{18x^4(5y-3)^2}$$

Section B Simplify the following algebraic fractions.

$$1) \frac{8x+4}{2}$$

$$10) \frac{x^2-13x+36}{x-4}$$

$$2) \frac{2y+6}{4}$$

$$11) \frac{x^2-8x-20}{9x+18}$$

$$3) \frac{7x}{14x-21}$$

$$12) \frac{5x+40}{x^2+6x-16}$$

$$4) \frac{9y^2}{3y+27y^2}$$

$$13) \frac{12x+20}{9x^2+9x-10}$$

$$5) \frac{x-4}{5x-20}$$

$$14) \frac{x^2+5x+6}{x^2+14x+24}$$

$$6) \frac{6y-30y^2}{24y^2}$$

$$15) \frac{x^2-7x-44}{x^2-17x+66}$$

$$7) \frac{x-4}{4-x}$$

$$16) \frac{6x^2-x-1}{15x^2+8x+1}$$

$$8) \frac{21-3x}{42x-6x^2}$$

$$17) \frac{x^2-y^2}{(x+y)^2}$$

$$9) \frac{x+2}{x^2+7x+10}$$

$$18) \frac{4y^2-9x^2}{4x^2y+6x^3}$$

Algebra Rational Expressions

James George Easton

Algebra Rational Expressions:

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