

Simplifying Algebraic Fractions

Simplify

(a) $\frac{4x^2}{8x}$ (b) $\frac{4xy}{12y^2}$
(c) $\frac{10x^2y}{20xy}$ (d) $\frac{9x^2yz}{27y^2}$
(e) $\frac{15ab}{18a^2}$ (f) $\frac{36ab^2c}{6abd}$

Simplify

(a) $\frac{x(x+9)}{6x}$ (b) $\frac{2x(x-4)}{5(x-4)}$
(c) $\frac{x^2+6x}{5x}$ (d) $\frac{x^2-5x}{3x-15}$
(e) $\frac{3x-x^2}{6-2x}$ (f) $\frac{12x^2-6x}{14x-7}$

Simplify

(a) $\frac{x(x-5)}{(x+2)(x-5)}$ (b) $\frac{2x(x+1)}{4(x+2)(x+1)}$
(c) $\frac{x(x+5)}{x^2+7x+10}$ (d) $\frac{x^2+2x+1}{(x+1)(x-4)}$

Simplify

(a) $\frac{x^2+6x}{x^2+5x-6}$ (b) $\frac{x^2-x-6}{x^2+x-12}$
(c) $\frac{2x^2+14x}{x^2+10x+21}$ (d) $\frac{x^2-4}{x^2+2x-8}$

Simplify

(a) $\frac{x^2+7x+6}{2x^2+3x+1}$ (b) $\frac{3x^2+7x+2}{x^2+9x+14}$
(c) $\frac{5x^2+28x-12}{x^2+4x-12}$ (d) $\frac{2x^2+15x+25}{x^2-x-30}$
(e) $\frac{5x^2+7x-6}{x^2-5x-14}$ (f) $\frac{2x^2-32}{2x^2+9x+4}$

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