

Pg. A36 0.4A – Rational Expressions

Ex 1:

Find the domain of the expression.

(a) $2x^2 + 5x - 2$

(b) $6x^2 - 9, \quad x > 0$

(c) $\sqrt{6-x}$

Ex 2:

Write the rational expression in simplest form.

(a) $\frac{2x^2y}{xy-y}$

(b) $\frac{x^2+8x-20}{x^2+11x+10}$

Ex 3:

Perform the multiplication and simplify.

$$\frac{x^2 - 14x + 49}{x^2 - 49} \div \frac{3x - 21}{x + 7}$$

Ex 4:

Perform the addition and simplify.

$$\frac{2}{x^2 - x - 2} + \frac{10}{x^2 + 2x - 8}$$