

OPÉRATIONS SUR LES

FRACTIONS ALGÈBRIQUES

MAT-4110-1

PRÉTEST C



#1.

$$\frac{5by - 7ay - 10bz + 14az}{49a^2 - 25b^2}$$

#2.

$$\frac{6x^2 - 11x - 10}{4xy - 10y}$$

#3.

$$\frac{2x^2 - 9x + 10}{-x^2 + 25} \times \frac{3x^3 + 9x^2}{-14x^2 + 21x + 14} \times \frac{2x^2 - 9x - 5}{-2x^2 - x + 15}$$

#4.

$$\frac{3x^2 - 13x + 4}{x^2 - x - 6} + \frac{-2x^2 + 9x + 5}{x^2 - 25} \div \frac{2x^2 - 7x - 4}{x^2 + x - 20}$$

#5.

$$\left(\frac{a-b}{a+b} - \frac{a+b}{a-b}\right) \div \left(\frac{a+b}{a-b} + \frac{a-b}{a+b}\right)$$

#6.

$$\left(\frac{x^2 - 2x}{x^2 - 4x + 4} + \frac{2x^2 + 8}{x^3 - 2x^2 + 4x - 8}\right) \left(\frac{x^2 + 4}{x^3 - 4x} - \frac{x + 2}{2x^2 - 4x}\right)$$

#7.

$$\frac{x^2 + x}{1 - x^2} - \frac{3x}{4x^3 - 4x^2 - x + 1} - \frac{12x + 3}{12x^2 - 3}$$