

# Evaluación del Primer Parcial

1. Simplifica las fracciones algebraicas y señala la respuesta correcta:

a.  $\frac{x^2 - 3x}{x^2 + 3x}$

I.  $\frac{x+3}{x-3}$

II.  $\frac{x-3}{x+3}$

III.  $\frac{x-3}{x-2}$

b.  $\frac{x^2 - 2x - 3}{x^2 - x - 2}$

I.  $\frac{x+3}{x-3}$

II.  $\frac{x-3}{x+3}$

III.  $\frac{x-3}{x-2}$

c.  $\frac{x^2 - xy + x - y}{x^2 - 4x - 5}$

I.  $\frac{x-y}{x-5}$

II.  $\frac{x-5}{x-y}$

III.  $\frac{x}{x-5}$

d.  $\frac{(x^2 - 16)(x + 2)}{x^2(x + 4) - 4(x + 4)}$

I.  $\frac{x-2}{x-4}$

II.  $\frac{x-4}{x-2}$

III.  $\frac{x+4}{x-2}$

2. Resuelva las siguientes fracciones algebraicas.

$$\frac{x+2}{x^2+4x+3} + \frac{x}{x^2+6x+9} - \frac{1}{x+1} = \frac{\boxed{\phantom{00}} \boxed{\phantom{00}}}{(\phantom{00}) (\phantom{00}) (\phantom{00}) (\phantom{00})}$$

$$= \frac{\boxed{\phantom{00}} \boxed{\phantom{00}}}{(\phantom{00}) (\phantom{00}) (\phantom{00}) (\phantom{00})}$$

$$\frac{2}{x^2-4} + \frac{1}{x-2} = \frac{\boxed{\phantom{x^2+6x+8}}}{(\quad)(\quad)} = \frac{\boxed{\phantom{x^2+6x+8}}}{(\quad)(\quad)}$$

**Beatriz**  

$$\frac{x^3 + \cancel{x^2}}{\cancel{x^2}} = x^3$$

**Patricia**  

$$\frac{\cancel{x^2}(x+1)}{\cancel{x^2}} = x+1$$

a)

b)