

$$\frac{1}{x^2 - 3x} - \frac{9}{8x} = \frac{29}{2x^3 + 2x^2 - 24x} - \frac{1}{x^2 + 4x}$$

$$\frac{1}{x(x-3)} - \frac{9}{8x} = \frac{29}{2x(x^2+x-12)} - \frac{1}{x(x+4)}$$

Scorpongo  $x^2 + x - 12$   
 $= x^2 + 4x - 3x - 12 =$   
 $= x(x+4) - 3(x+4) = (x+4)(x-3)$

$$\frac{1}{x(x-3)} - \frac{9}{8x} = \frac{29}{2x(x+4)(x-3)} - \frac{1}{x(x+4)} \quad \text{CE}$$

$x \neq -4 \wedge x \neq 0 \wedge x \neq 3$

$$\frac{8(x+4) - 9(x+4)(x-3)}{8x(x+4)(x-3)} = \frac{116 - 8(x-3)}{8x(x+4)(x-3)}$$

$$8x + 32 - 9(x^2 + x - 12) = 116 - 8x + 24$$

$$8x + 32 - 9x^2 - 9x + 108 - 116 + 8x - 24 = 0$$

$$-9x^2 + 7x = 0$$

$$x(-9x + 7) = 0 \quad x = 0 \vee -9x + 7 = 0 \Rightarrow x = \frac{7}{9}$$

non acc.

$$S = \left\{ \frac{7}{9} \right\}$$

M.P.

$$\frac{3x^2+4x}{x^2+4x} - \frac{6}{2x-1} = \frac{27}{4-7x-2x^2}$$

$$\frac{3x^2+4x}{x(x+4)} - \frac{6}{2x-1} = \frac{27}{-2x^2-7x+4}$$

$$\frac{3x^2+4x}{x(x+4)} - \frac{6}{2x-1} = \frac{27}{(x+4)(-2x+1)}$$

$$\frac{3x^2+4x}{x(x+4)} - \frac{6}{2x-1} = \frac{-27}{(x+4)(2x-1)}$$

$$\frac{x(3x+4)}{x(x+4)} - \frac{6}{2x-1} = \frac{-27}{(x+4)(2x-1)}$$

$$\Delta. \frac{(3x+4)(2x-1) - 6(x+4)}{(x+4)(2x-1)} = \frac{-27}{(x+4)(2x-1)} \quad \Delta$$

$$6x^2 - 3x + 8x - 4 - 6x - 24 = -27$$

$$6x^2 - 3x + 8x - 4 - 6x - 24 + 27 = 0$$

$$6x^2 - x - 1 = 0$$

$$6x^2 - 3x + 2x - 1 = 0$$

$$3x(2x-1) + 1(2x-1) = 0$$

$$(2x-1)(3x+1) = 0$$

$$x = \frac{1}{2} \vee x = -\frac{1}{3}$$

$$S = \left\{ -\frac{1}{3}; \frac{1}{2} \right\}$$

Scompongo  $-2x^2 - 7x + 4$

$$\Delta = 49 - 4(-2)(4) = 49 + 32 = 81$$

$$x_{1,2} = \frac{7 \pm 9}{-4} = \begin{cases} \frac{16}{-4} = -4 \\ \frac{-2}{-4} = \frac{1}{2} \end{cases}$$

$$-2(x+4)\left(x - \frac{1}{2}\right) = (x+4)(-2x+1)$$

CE.  $x \neq -4 \wedge x \neq 0 \wedge x \neq \frac{1}{2}$