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

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

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

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

$$0 = \frac{(x+4)(x-1) + 2x(x+1) - (2x+3)(x-1)}{2(x+1)(x-1)}$$

$$0 = (x-1)(x+4-2x+3) + 2x^2+2$$

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

$$0 = \chi^2 + 8\chi - 5$$

$$X = \frac{-8 \pm \sqrt{64 - (-20)}}{2(4)}$$

$$X = -4 \pm \sqrt{21}$$

$$\chi_1 \cdot \chi_2 = (-4 + \sqrt{2}1)(-4 - \sqrt{2}1)$$

= $16 + 4\sqrt{2}1 - 4\sqrt{2}1 - 21$

2) (x2+x-2) (x2-9)5 <0 I.E.T. I : SHIPLEY SACASEUI $(4+x^2)^5(x-2x-3)$ $((x+2)(x-1))^4 (x+3)(x-3)^5 < 0$ $(2^2 + x^2)^5 (-x-3)$ $(x+2)^{4}(x-1)^{4}(x+3)^{5}(x-3)^{5}$ $(x^2+2^2)^5-(x+3)$ $\frac{(x+2)^{4}(x-1)^{4}(x+3)^{5}(x-3)^{5}}{(x^{2}+2^{2})^{5}(x+3)}>0$ R: $x \neq -3, -2, 1, 3$ $x^{2} + 4 = 0$ x + 2 = 0 x = -2 $\frac{(x+2)^{4}(x-1)^{4}(x+3)^{4}(x-3)^{5}}{(x^{2}+2^{2})^{5}} > 0 \Rightarrow^{(-)} {(+)}$ $(x-3)^5 > 0 = >$ $(x+2)^{4}(x-1)^{4}(x+3)^{4}(x-3)^{5}>0$ > cs: ₹]3; ∞[x<3 y (x2+22) <0 6 x73 y R. x2 < (22)