$$\left(\frac{x^2+1}{2} - \frac{x^2+6}{3}\right) = 0$$

mmc(2,3) = 6

$$\frac{3(x^{2}+1)-2(x^{2}+6)}{8} = \frac{2}{8}$$

$$3x^{2}+3-2x^{2}-12=0$$

$$x^{2}-9=0$$

$$x^{2}=9 \implies x=3 \text{ on } x=-3$$

$$5=\frac{1}{3},-3\frac{1}{9}$$

$$\chi^{2} - 9 = 0$$

$$2Q$$

$$(\chi - 3)(\chi + 3) = 0$$

$$\chi - 3 = 0 \text{ on } \chi + 3 = 0$$

$$\chi = 3 \text{ on } \chi = -3$$

$$3x^{4} + 18x^{3} + 5x^{2} + 30x = 0$$

$$3x^{3} \cdot (x + 6) + 5x \cdot (x + 6) = 0$$

$$7 \cdot (x + 6) \cdot (3x^{2} + 5) = 0$$

$$7 = 0$$

$$7 = 0$$

$$7 = 0$$

$$7 = -6$$

$$7 = -\frac{5}{3}$$

$$7 = 0$$

$$8x + 6 = 0$$

$$8x^{2} + 5 = 0$$

$$8x + 6 = 0$$

$$8x^{2} + 5 = 0$$

$$8x + 6 = 0$$

$$8x^{2} + 5 = 0$$

$$8x + 6 = 0$$

$$8x^{2} + 5 = 0$$

$$8x + 6 = 0$$

$$8x^{2} + 5 = 0$$

$$8x + 6 = 0$$

5 x (x+6)

 $\frac{5x^2}{5x} = x$

3x3 (x+6)

7. (2+6)

$$(3x+5) \cdot (x-4) \cdot (x^2-4) = 0$$

$$3x+5=0$$
 on $x-4=0$ on $x^2-4=0$

$$\chi = -\frac{5}{3}$$

$$3x+5=0$$
 on $x-4=0$ on $x^{2}-4=0$
 $x=-\frac{5}{3}$ on $x=4$ on $x^{2}=4$
 $x=2$ on $x=-2$

$$S = \begin{cases} -\frac{5}{3}, 4, 2, -2 \end{cases}$$

$$E = \frac{(a+x)(a+x)}{a+1} + \frac{(a+x)(a+2x)}{a-1} + \frac{(a+x)(a+1)}{a^2-1} = \frac{(a+x)(a+1) + (2a+2x) \cdot 1}{a^2-1}$$

$$E = \frac{(2)}{(2)} - (1)(2-1)$$

$$= \frac{(2)}{(2+1)(2-1)}$$

$$E = \frac{2a^{2} + 2ax + 2a + 2x}{(a+1)(a-1)}$$

$$\overline{E} = \frac{2a(a+x) + 2(a+x).1}{(a+i)(a-i)}$$

$$E = \frac{2(\alpha + x) \cdot (\alpha + 1)}{(\alpha + 1)(\alpha - 1)}$$

$$E = \frac{2 \cdot (\alpha + x)}{\alpha - 1}$$

$$2a+2x$$

$$2\cdot(a+x)$$

$$2a(a+x)$$

$$2(a+x)$$

$$2(a+x)$$

$$2(a+x)$$

Rasculo

$$\frac{(a-1)(a+1)}{a+1} = a-1$$

$$\frac{(a-1)(a+1)}{a-1} = a+1$$

$$(x-3)^{2}=25$$

$$\gamma - 3 = 5$$
 on $\gamma - 3 = -5$

$$\gamma = 5+3$$
 or $\gamma = -5+3$

$$x=8$$
 on $x=-2$

$$S = \{8, -2\}$$

$$5^2 = 25$$
 $(-5)^2 = 25$

$$3 = 9$$
 $3 = 81$
 $(-3) = 9$
 $(-3) = 81$

$$\chi^{2} = 9 \Rightarrow (x = 3 \text{ on } x = -3)$$

$$\chi^{2} = 4 \Rightarrow (x = 3 \text{ on } x = -3)$$

$$\chi^{2} = 4 \Rightarrow (x = 3 \text{ on } x = -3)$$