Factor cumin

$$a + a'x^2 + a'x^3 = a(a + ax^2 + ax^3)$$

$$a(1 + x^2 + x^3)$$

$$= a(a + ax^2 + ax^3)$$

$$= a(1 + x^2 + x^3)$$

$$= a(1 + x^2 + x^3)$$
Ofference de Cudrades.
$$a^2 - b^2 = (a - b)(a + b)$$

$$a^{2} - b^{2} = (a - b)(a + b)$$

$$= a^{2} + ab - ab - b^{2}$$

$$= a^2 - b^2$$

Ey:
$$\chi^{2}(y)^{2} + \chi^{2} - \chi^{2} = (\chi - \chi)(\chi + \chi)$$

Thnomios.
$$x^2 + bx +$$

$$x^{2} + 2x + 1 = (x+1)(x+1)$$

$$= (x+1)^{2}$$

$$= \frac{0^{2} - 0 - 72}{12} = \frac{(0 - 9)(0 + 8)}{12}$$

$$= \frac{12}{(4 \times -3)} = \frac{(3 \times + 2)}{(6 \times + 4)}$$

Elp: Siempre el número

Solvair.

$$lm + 3 = (3) + 3 = 9$$

 $x-73$

 $\{(3) = 7$

2
$$\lim_{x \to 7} \frac{x-7}{3x^2-21x}$$

Fallow Coming providence.

Lun $\frac{x-7}{x(3x-21)}$
 $3y-21:(x-7):3y-21$
 $3y-21:(x-7):3y-21$
 $3(\frac{5x}{3}-2\frac{1}{3}):3y-21$
 $3(\frac{5x}{3}-2\frac{1}{3}):3y-21$

Lun $\frac{y-7}{3}:3y-21$
 $y-7:3y-21:3y-21$
 $y-7:3y-21:3$

T: 2 ma.

$$\lim_{\chi \to 4} \frac{\chi + 4}{\chi + 6} = \frac{4 + 4}{4 + 6} = \frac{8}{10} = \frac{4}{5}$$
5.
$$\lim_{\chi \to 5} \frac{\chi^2 - 25}{2\chi^2 - 12\chi + 10}$$

$$\lim_{x \to 5} \frac{(x-5)(x+5)}{(2x-3)(2x-3)}$$

$$(2x-10)(2x-2)$$

$$(x+5)$$

-> factoria Suma / Rosh de Cubos. Investigar.

Toneu:

1. lm 8x3+1 x->-1/2 2x+1

2. $\lim_{x\to -3} \frac{x^2 + 8x + 15}{x^2 - x - 12}$

3. $\lim_{x \to 5} \frac{2x^2 - 13x + 15}{x^2 - x - 20}$

$$\lim_{X\to 5} \frac{(x+5)}{(2x-2)} = \frac{5+5}{2(5)-2} = \frac{10}{8} = \frac{5}{4}$$

$$\frac{2}{5}$$

 x^{2} 1 2 x - 24 = (x + 6)(x - 4)