CORREZIONE esercizi svolto a casa:

ES. 396

ESERCITAZIONE N°1

Risolvi la seguente equazione fratta

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

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

$$\frac{1}{2(x-1)[x^{2}+x+1]} - \frac{x}{2(x-1)[x^{2}+x+1]} = \frac{1}{2(x-1)(x^{2}+1+x)}$$

$$\frac{1}{2(x-1)[x+1]} - \frac{x}{2(x-1)[x^{2}+x+1]} + \frac{1}{2(x-1)[x+1]} = \frac{1}{2(x-1)[x+1]}$$

$$\frac{1}{2(x-1)[x+1]} = \infty$$

$$-X - 1 - 2X^{2} - 2X + 2X^{2} + 2X + 2 = 0$$
 $-X + 130$
 $-X = -1$
 $FACOLT$

NOT ACC. -D IMPOSSIBILE

ESERCITAZIONE N°2

Risolvi la seguente equazione fratta

$$\frac{x^2 + x - 6}{x^2 + 4x - 5} : \frac{x^2 - 4}{x + 5} + \frac{1}{x - 1} = \frac{1}{x + 2}$$

$$\frac{\chi^2 + 4\chi - 6}{\chi^2 + 4\chi - 5} \qquad \frac{\chi + 5}{\chi^2 - 4} \qquad \frac{1}{\chi - 1} \qquad \frac{\chi + 1}{\chi + 2}$$

$$\frac{(x+3)(x-c)(x+5)}{(x+5)(x-1)(x+2)(x+2)} + \frac{1}{x-1} - \frac{1}{x+2} = 0$$

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

$$\frac{x+3+x+2}{(x+3)} = 5$$

C. E.

X \$ -5

x t z

ESERCITAZIONE PER CASA

$$\left(\frac{x^2 - 4x + 4}{3 - x}\right)^2 \cdot \left(\frac{x - 3}{x^2 - 4}\right)^4$$
 $\left[\frac{(x - 3)^2}{(x + 2)^4}\right]$

$$\left(\frac{a+2}{a+3} - \frac{1}{2-a} - \frac{3a-1}{a^2+a-6}\right)^2 \cdot \frac{a^2-9}{3a^2}$$

$$\left(\frac{4x-8}{x^2-4x+3}\right)^{-2} \cdot \left(\frac{x^3-3x^2+3x-1}{8}\right)^{-1} \cdot \left(\frac{x^2-6x+9}{2x^2-6x+4}\right)^{-2} \qquad \left[\frac{2x-2}{(x-3)^2}\right]$$

$$\frac{8x^2 + 5x - 1}{3x^2 + 5x - 2} - \frac{x - 1}{x + 2} = 2 + \frac{x - 1}{1 - 3x}$$
 [ind., $x \neq -2 \land x \neq \frac{1}{3}$]

$$\frac{2a}{a+1} \left(\frac{2a}{a+1} \right)^2 \cdot \left(\frac{a+1}{a} \right)^3 - \frac{4}{a}$$
 [4]
$$\frac{371}{a^5b^2} \left(\frac{a+b}{ab^2} - \frac{a-b}{a^2b} \right)^2 \cdot \frac{a^5b^6}{a^5b^2 - ab^6} - \frac{2ab}{a^2 - b^2}$$

$$\frac{a^3}{(a-1)^2} \right]^3 \cdot \left(\frac{a-1}{a^2}\right)^5 - \frac{1}{a} - \frac{1}{a-1} \qquad \left[-\frac{2}{a} \right]$$
 372
$$\left[\left(\frac{2a^2}{a-2}\right)^3 + \left(\frac{a^3}{a-2}\right)^2 \right] \cdot \left(\frac{a-2}{a^2}\right)^3$$
 [a+6]

$$370 \quad \left[\left(\frac{1}{x} + \frac{1}{y} \right)^2 \cdot \left(\frac{xy}{x+y} \right)^3 - \frac{y}{x+y} \right] \frac{1}{xy-y} \qquad \left[\frac{1}{x+y} \right]$$

$$\frac{1}{x^2 - 2x} - \frac{1}{x^2 + 2x} - \frac{2}{x^2 - 4} \right)^{-3} \cdot \left(\frac{1}{2x^2 + 4x}\right)^2 \cdot \frac{(-2)^5}{x}$$
 [x + 2]

$$\frac{b^2 - a^2}{a^2 + 2ab + b^2}$$