398 
$$\left[\frac{1}{6} - (0,2\overline{4} - 0,\overline{4})\right] \cdot \left(0,\overline{42} + \frac{1}{11}\right) + (-0,32) : \left(+\frac{0,4}{0,\overline{1}}\right) =$$

$$= \left[\frac{1}{6} - \left(\frac{24-2}{30} - \frac{4}{9}\right)\right] \cdot \left(\frac{42}{33} + \frac{1}{11}\right) + \left(-\frac{32}{100}\right) \cdot \left(\frac{4}{10}\right) =$$

$$= \left[\frac{1}{6} - \left(\frac{22}{30} - \frac{4}{9}\right)\right] \cdot \left(\frac{42+9}{99}\right) + \left(-\frac{8}{25}\right) : \left(\frac{\cancel{4}}{\cancel{4}}, \cancel{9}\right) =$$

$$= \begin{bmatrix} \frac{1}{6} - \frac{18}{36} \\ \frac{1}{96} \end{bmatrix} \cdot \frac{17}{33} + \frac{18}{25} \cdot \frac{5}{18} = \frac{19}{5}$$

$$= \left[ \left( -\frac{5}{4} \right) \left( -1 - \frac{6}{5} + \frac{1}{5} \right) \right] - \left( \frac{3}{2} + \frac{175}{100} - \frac{1}{2} - \frac{5}{4} + 1 \right)^{2} + 5 =$$

$$= \left[ \left( -\frac{5}{4} \right) \left( -\frac{15-10+3}{15} \right) \right] - \left( \frac{6+4-2-5+4}{4} \right) + 5 =$$

$$= \begin{bmatrix} 1 & 11 & 5 & 2 \\ -\frac{2}{4} & (-\frac{32}{15}) & -(\frac{16}{4}) + 5 = \\ 2 & 3 & 2 \end{bmatrix}$$

$$= \frac{11}{6} - \frac{25}{4} + 5 = \frac{22 - 75 + 60}{12} = \frac{7}{12}$$

417 
$$\left(-\frac{1}{2}\right)^{-3}$$
;  $\left(+\frac{1}{2}\right)^{-1}$ ;  $\left(-\frac{3}{2}\right)^{-2}$   $\left[-8; 2; \frac{4}{9}\right]$ 

$$\left(-\frac{1}{2}\right)^{-3} = \left(-2\right)^{3} = \left[-8\right]$$

$$\left(\frac{1}{2}\right)^{-1} = 2^{1} = \left(\frac{2}{2}\right)^{-2} = \left(-\frac{2}{3}\right)^{-2} = \left(\frac{2}{3}\right)^{-2} = \left($$

434 
$$\left[ \left( -\frac{1}{3} \right)^{-2} \right]^{-3} = \left( -\frac{1}{3} \right)^{6} = \left( -\frac{1}{3} \right)^{6}$$

**421** 
$$\left(-\frac{1}{2} - \frac{3}{2}\right)^{-3}$$
;  $\left(1 - \frac{3}{2}\right)^{-2}$ ;  $\left(\frac{1}{1 - \frac{3}{2}}\right)^{-1}$ 

$$\left(-\frac{1}{2} - \frac{3}{2}\right)^{-3} = \left(-\frac{1}{2} - \frac{3}{2}\right)^{-3} = \left(-\frac{4}{2}\right)^{-3} = \left(-2\right)^{-3} =$$

$$=\left(-\frac{1}{2}\right)^3 = -\frac{1}{2^3} = -\frac{1}{8}$$

$$\left(1-\frac{3}{2}\right)^{-2} = \left(\frac{2-3}{2}\right)^{-2} = \left(-\frac{1}{2}\right)^{-2} = \left(-2\right)^{2} = \boxed{4}$$

$$= \left(-2\right)^{-1} = \left(-\frac{1}{2}\right)^{2} = \left[-\frac{1}{2}\right]^{2}$$

**451** 
$$\left(\frac{16}{21}\right)^4 \cdot \left(-\frac{7}{8}\right)^4 : \left(\frac{3}{8}\right)^4; \qquad \left(-\frac{3}{20}\right)^{-5} \cdot \left(\frac{25}{9}\right)^{-5} : \left(-\frac{1}{16}\right)^{-5}$$

$$=\left(-\frac{16}{9}\right)^{\frac{4}{5}} = \left(\frac{16}{9}\right)^{\frac{4}{5}}$$

U GUAGLIANZA UERA

PERUJE 4 E PARI

$$\left(\frac{16}{21}\right)^4 \cdot \left(\frac{7}{8}\right)^4 \cdot \left(\frac{3}{8}\right)^4 = \left(-\frac{3}{20}\right)^{-5} \cdot \left(\frac{25}{3}\right)^{-5} \cdot \left(-\frac{1}{16}\right)^{-5} = \left(-\frac{3}{16}\right)^{-5} \cdot \left(-\frac{3}{16}\right)^{-5} = \left(-\frac{3}{16}\right)^{-5} =$$

$$= \begin{bmatrix} -\frac{3}{3} & \frac{25}{5} & \frac{4}{-16} \end{bmatrix} = \begin{bmatrix} -\frac{3}{2} & \frac{25}{5} & \frac{4}{-16} \end{bmatrix} = \begin{bmatrix} -\frac{3}{2} & \frac{25}{5} & \frac{4}{-16} \end{bmatrix}$$

$$= \begin{bmatrix} 20 \\ 3 \end{bmatrix} = \begin{bmatrix} 3 \\ 20 \end{bmatrix}$$

**461** 
$$\left(-\frac{1}{20}\right)^{-4}: \left(\frac{1}{50}\right)^3: 10^{10} =$$

$$(-28)^3 : \left(-\frac{1}{98}\right)^2 \cdot \left[\left(\frac{1}{14}\right)^{-2}\right]^{-4} =$$

$$=(-20)^4:(\frac{1}{50})^3:10^6=$$

$$=(-28)^3:(-\frac{1}{98})^2:(\frac{1}{14})^8=$$

$$= 20^4 \cdot 50^3 \cdot \frac{1}{10^{10}} =$$

$$= \left(-2^{2} \cdot 7\right)^{3} \cdot \left(-2 \cdot 7^{2}\right)^{2} \cdot \left(\frac{1}{2 \cdot 7}\right)^{8} =$$

$$= (2^{2} \cdot 5)^{4} \cdot (5^{2} \cdot 2)^{3} \cdot \frac{1}{(5 \cdot 2)^{40}} =$$

$$= 2^{8} \cdot 5^{4} \cdot 5^{6} \cdot 2^{3} = 5^{10} \cdot 2^{10}$$

$$= \frac{2^{1} \cdot 5^{10}}{5^{10} \cdot 2^{10}} = 2^{1} = 2$$

$$\frac{2}{7} = \frac{-2}{7} = \frac{2}{-7}$$

$$-(-3)=3$$

all'interns di un'expressione

ATTENZIONE CHE COL 2° METODO E PIÙ FACHE SBAGLIARE!!!