$$\frac{3}{\cancel{4}2}\cdot\frac{\cancel{2}1}{1}=\frac{3}{2}$$

LEZIONE 39

Espressioni algebriche letterali di riepilogo

$$(25x^6y^4):(-10x^4y^3)-\left(-\tfrac{1}{2}xy^2\right)^2\left(\tfrac{1}{2}xy^2\right)^5:\left(\tfrac{1}{2}xy^2\right)^6+\left(-\tfrac{3}{4}x^2y\right):\left(-\tfrac{1}{2}xy\right)+\tfrac{2}{3}x^2y-x\left(-\tfrac{1}{2}y^2\right)-\tfrac{1}{3}xy=$$

$$=-\frac{\cancel{25}^{5}}{\cancel{10}_{2}}x^2y-\left(\frac{1}{2}xy^2\right)^2\cdot\left(\frac{1}{2}xy^2\right)^5:\left(\frac{1}{2}xy^2\right)^6+\frac{3}{2}x^2y+\frac{2}{3}x^2y+\frac{1}{2}xy^2-\frac{1}{3}xy=$$

$$=-\frac{5}{2}x^2y-\left(\frac{1}{2}xy^2\right)+\frac{3}{2}x^2y+\frac{2}{3}x^2y+\frac{1}{2}xy^2-\frac{1}{3}xy=$$

$$=\underbrace{-\frac{5}{2}x^2y}-\frac{1}{\cancel{2}}xy^2+\underbrace{\frac{3}{2}x^2y}+\underbrace{\frac{2}{3}x^2y}+\underbrace{\frac{1}{\cancel{2}}xy^{\cancel{2}}}-\frac{1}{3}xy=$$

$$=\left(-\frac{5}{2}+\frac{3}{2}+\frac{2}{3}\right)x^2y-\frac{1}{3}xy=$$

$$=\left(\frac{-15+9+4}{6}\right)x^2y-\frac{1}{3}xy=$$

$$=-\frac{\cancel{2}1}{\cancel{3}6}x^2y-\frac{1}{3}xy=\boxed{-\frac{1}{3}x^2y-\frac{1}{3}xy}$$

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

$$=\left\{\left[m^2-m+2m-2+2\right](m^2+m-1)+m\right\}\left(\frac{1}{4}m^2\right)-\left(+\frac{1}{4}m^6\right)=$$

$$=\left\{(m^2+m)(m^2+m-1)+m\right\}\left(\frac{1}{4}m^2\right)+\frac{1}{4}m^6=$$

$$=\left\{m^4+m^3-m^2+m^3+m^2-m+m\right\}\left(\frac{1}{4}m^2\right)+\frac{1}{4}m^6=$$

$$=\left\{m^4+2m^3\right\}\left(\frac{1}{4}m^2\right)+\frac{1}{4}m^6=$$

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

$$=\boxed{\frac{1}{2}m^5}$$