I B igea — Docente: Daniele De Pieri

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Esercizi

1) Semplifica l'espressione:

$$\frac{\left(\frac{3}{2}\right)^{-2}\cdot(15)^{-2}\left(\left(-\frac{1}{10}\right)^{4}\cdot(-5)^{-1}\right)^{2}}{\left(-\frac{1}{3}\right)^{-5}:\left(\left(-\frac{1}{15}\right)\cdot(+3)^{-6}\right)^{-1}}\cdot\left(\frac{3^{2}}{10^{10}}\right)\qquad=5^{-1}$$

Verifica soluzione

$$\frac{\left(\frac{3}{2}\right)^{-2}\cdot 15^{-2}\cdot\left(\left(-\frac{1}{10}\right)^{4}\cdot(-5)^{-1}\right)^{2}}{\left(-\frac{1}{3}\right)^{-5}}\cdot\frac{3^{2}}{10^{10}}=\frac{1}{2^{16}\cdot 5^{21}}$$
$$\frac{}{\left(\left(-\frac{1}{15}\right)\cdot 3^{-6}\right)^{-1}}$$

Esercizio originale

2)
$$\frac{\left(\frac{3}{2}\right)^{-2}\cdot(15)^{-2}:\left(\left(-\frac{1}{10}\right)^{4}\cdot(-5)^{-1}\right)^{2}}{\left(-\frac{1}{3}\right)^{-5}:\left(\left(-\frac{1}{15}\right)\cdot(+3)^{-6}\right)^{-1}}\cdot\left(\frac{3^{2}}{10^{10}}\right)$$

3)
$$\frac{\left(\left(\frac{5}{6}+\frac{1}{3}-1\right):\left(\frac{2}{3}-\frac{3}{4}\right)-\left(-\frac{3}{5}\right)^{3}\cdot\left(+\frac{3}{5}\right)^{-2}\right)\cdot\left(\frac{1}{7}-\frac{1}{2}\right)}{2-\frac{1-\frac{1}{3}}{1+\frac{1}{3}}}$$