

$$\begin{aligned}
& 3 - \frac{1}{2} + \left[ \frac{3}{4} + \left( \frac{1}{5} - \frac{6}{10} \right) \right] - 1 = \\
& = 3 - \frac{1}{2} + \left[ \frac{3}{4} + \frac{2-6}{10} \right] - 1 = \\
& = 3 - \frac{1}{2} + \left[ \frac{3}{4} + \left( -\frac{4}{10} \right) \right] - 1 = \\
& = 3 - \frac{1}{2} + \left[ \frac{3}{4} - \frac{4}{10} \right] - 1 = \\
& = 3 - \frac{1}{2} + \left[ \frac{15-8}{20} \right] - 1 = \\
& = \frac{3}{1} - \frac{1}{2} + \frac{7}{20} - 1 = \\
& = \frac{60-10+7-20}{20} = +\frac{37}{20}
\end{aligned}$$

$$\begin{array}{r}
5 = 1 \cdot 5 \\
10 = 2 \cdot 5 \\
\hline
\text{m.c.m.} = 10
\end{array}$$

$$\begin{aligned}
& \frac{1}{10} - \frac{3}{5} + \left[ \frac{5}{2} - \left( 6 - 7 - \frac{1}{10} \right) \right] - \left( \frac{6}{5} + 3 \right) = \\
& = \frac{1}{10} - \frac{3}{5} + \left[ \frac{5}{2} - \left( \frac{30-35-1}{5} \right) \right] - \left( +\frac{21}{5} \right) = \\
& = \frac{1}{10} - \frac{3}{5} + \left[ \frac{5}{2} - \left( -\frac{6}{5} \right) \right] - \frac{21}{5} = \\
& = \frac{1}{10} - \frac{3}{5} + \left[ \frac{5}{2} + \frac{6}{5} \right] - \frac{21}{5} = \\
& = \frac{1}{10} - \frac{3}{5} + \frac{25+12}{10} - \frac{21}{5} = \\
& = \frac{1}{10} - \frac{3}{5} + \frac{37}{10} - \frac{21}{5} = \\
& = \frac{1-6+37-42}{10} = -\frac{10}{10} = -1
\end{aligned}$$

### PROPRIETA' DELLE POTENZE

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

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$$\begin{aligned}
& \left[ \left( -\frac{1}{4} \right)^3 : \left( -\frac{1}{4} \right) \right]^2 = \\
& \left[ \left( -\frac{1}{4} \right)^{3-1} \right]^2 = \left[ \left( -\frac{1}{4} \right)^2 \right]^2 = \left( -\frac{1}{4} \right)^{2 \cdot 2} = \left( -\frac{1}{4} \right)^4 = \\
& = +\frac{1}{256}
\end{aligned}$$

$$\left[ \left( \frac{2}{3} \right)^2 \cdot \left( \frac{3}{8} \right)^2 \right]^2 \cdot 2^4$$

$$\begin{aligned}
a^m \cdot b^m &= \\
&= (a \cdot b)^m
\end{aligned}$$

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