

Potenze di frazioni

Periodo 1 - UdA 5-6

Risolvere le seguenti espressioni

1. $(1 - 2^2 \cdot \frac{1}{6}) - (\frac{1}{2})^2$
2. $\left[2 \cdot (1 - \frac{1}{3})^2 + (\frac{1}{3})^2\right]^4 \cdot \left[1 - (\frac{3}{4})^2\right] \cdot \frac{1}{7}$
3. $(1 - \frac{2}{5})^2 + \left(\frac{2^2}{5}\right)^2$
4. $\left(\frac{3^2}{2}\right) \cdot (2 - \frac{5}{3})^2 - (\frac{1}{2})^2$
5. $\frac{1}{2} - \left[2 - 5 \cdot (\frac{3}{5})^2\right]$
6. $2 - (\frac{3}{2})^2 \cdot \left[\frac{1}{2} + \frac{1}{4} \cdot \frac{6}{5} \cdot (\frac{1}{3})^2\right]$
7. $(\frac{1}{4})^2 \cdot \frac{2^3}{3} + (\frac{2}{3})^2 \cdot \left[1 - (\frac{1}{2})^2\right]$
8. $(\frac{1}{3})^2 \cdot \frac{3}{2} + (\frac{2}{3})^2 \cdot \frac{9}{8}$
9. $7 \cdot (\frac{1}{2})^3 - (2 - \frac{3}{2})^2 - (\frac{3}{2})^2 \cdot \left(1 - \frac{2^3}{9}\right)$
10. $\left[1 - (\frac{1}{2} - \frac{1}{5})^2 \cdot 10\right] \cdot (\frac{5}{2})^2$
11. $(\frac{2}{3})^2 \cdot \frac{9}{2} - \left(1 - \frac{2^2}{5}\right) \cdot (4 - \frac{3}{2})^2$
12. $(\frac{3}{2} - 1)^3 \cdot 3^2 - \frac{1}{4} - (\frac{1}{2})^3$

SOLUZIONI

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1. $\frac{1}{12}$
2. $\frac{1}{16}$
3. 1
4. $\frac{1}{4}$
5. $\frac{3}{10}$
6. $\frac{4}{5}$
7. $\frac{1}{2}$
8. $\frac{2}{3}$
9. $\frac{3}{8}$
10. $\frac{5}{8}$
11. $\frac{3}{4}$
12. $\frac{3}{4}$