Espressioni letterali frazionarie

Periodo 1 - UdA 7-8

Risolvere le seguenti espressioni (denominatore comune)

1. $-\frac{1}{2}x\left(\frac{2}{3}x^2-x-\frac{1}{2}\right)$
2. $\left(2x^2-\frac{1}{2}x-1\right)\left(\frac{1}{2}x^2-x+2\right)$
3. $-\left(x^2+\frac{2}{3}x+\frac{4}{9}\right)\left(\frac{3}{2}x-1\right)$
4. $2x\left(x-\frac{1}{3}\right)-\left(2x^2-\frac{2}{3}x\right)$
5. $-\left(x^2-\frac{1}{2}x\right)\left(\frac{1}{3}x+1\right)+\frac{5}{6}x^2$
6. $\left(x^2-\frac{2}{3}x+\frac{1}{3}\right)\left(3x^2-1\right)-x\left(3x^3+\frac{2}{3}\right)$
7. $-\left(x^2-1\right)\left(\frac{1}{2}x-\frac{1}{3}\right)-\frac{1}{6}x\left(2x+3\right)$
8. $\left(\frac{1}{2}x^2-\frac{1}{3}\right)\left(x+\frac{1}{2}\right)-\frac{1}{6}x\left(3x^2-2\right)-\frac{1}{2}x$
9. $-\left(x^2+\frac{1}{2}x-\frac{1}{2}\right)\left(\frac{1}{2}x^2+x\right)+\frac{1}{2}x^2\left(x^2+\frac{5}{2}x+\frac{1}{2}\right)$
10. $-\left(\frac{1}{3}x^2-x+1\right)+\left(\frac{2}{3}x+1\right)\left(x-2\right)-\frac{1}{3}x\left(x+2\right)$
11. $-\frac{5}{6}x-\left(\frac{1}{2}x^2-\frac{1}{3}x+1\right)\left(\frac{1}{3}x^2-x-\frac{1}{2}\right)-\frac{11}{18}x^3$
12. $-\left(\frac{3}{2}x+1\right)\left(\frac{1}{2}x-1\right)+\frac{1}{2}\left(\frac{3}{2}x^2+2\right)-\left(x+1\right)$
13. $\left(x+\frac{2}{3}\right)\left(-\frac{1}{2}x-1\right)-\left(x-2\right)\left(2x+\frac{1}{3}\right)$

SOLUZIONI

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1. $\frac{-4x^3+6x^2+3x}{12}$
2. $\frac{4x^4-9x^3+16x^2-8}{4}$
3. $\frac{-27x^3+8}{18}$
4. 0
5. $\frac{-2x^3+3x}{6}$
6. $\frac{-6x^3-1}{3}$
7. $\frac{-3x^3-2}{6}$
8. $\frac{3x^2-6x-2}{12}$
9. $\frac{x}{2}$
10. -3
11. $\frac{-2x^4-5x^2+6}{12}$
12. 1
13. $\frac{-15x^2+14x}{6}$