Operazioni con i monomi
Polynomials: Combining "Like Terms"
Eléments du calcul littéral

=-=

Somma algebrica di monomi

1. $-4y^2+5y^2-15y^2=$

2. $\frac{1}{2}\mathrm{a}+2\mathrm{b}+\mathrm{a}-\mathrm{b}=$

3. $7a-3b+5b-12a+4b+6a=$

4. $-4a+3b-a-2b+5a-4b=$

5. $-10xy+4y^2-7xy+11xy-3y^2-y^2=$

6. $-5x^2y+6x^2y-9xy^2+3x^2y-2xy^2=$

7. $6x^2y-9xy^2+3x^2y-5x^2y-2xy^2+9xy^2=$

8. $2xy^2+6x^2y+9xy^2+3x^2y-5x^2y-2xy^2-9xy^2=$

9. $\frac{1}{3}-2x+\frac{1}{3}y-\frac{7}{2}-\frac{1}{6}y+\frac{1}{4}x+\frac{19}{6}=$

10. $\frac{1}{5}x^2y^3-5x^2y^3-\frac{2}{3}x^2y^3+\frac{7}{15}x^2y^3+5x^3y^2=$

11. $-3x+(-7a)-(-2x)+(+5a)-(+8a)=$ (*)

12. $(8a^2b+3ab-b^2)+(10ab+5ab-8a^2b-5b^2-10ab)-(-3a^2b+8ab-3b^2)-3a^2b=$

13. $(-2a^2+5a-3b)-(-3b-2a^2)-(5a-6)=$

14. $\left(-\frac{1}{6}cx+\frac{1}{2}bx\right)+\left(\frac{3}{7}ax-\frac{2}{5}bx-\frac{1}{6}cx\right)-\left(\frac{1}{10}bx-\frac{1}{3}cx-\frac{4}{7}ax\right)=$

15. $y^2+3x^2-[5xy-(2x^3+10xy+3y^2)]-[2x^3-(-5xy+10x^3)]-4y^2-10x^3=$

16. $2x^3y^3+2+xy^3-6x^2y^3+3-xy^3+3x^2y^3-5+2x^2y^3-2x^3y^3=$

(*) gentile concessione di stringher.blog.kataweb.it/ - Commissione e-learning IPSSCART B. Stringher – Udine

=-=

Prodotto, divisione e potenze di monomi

17. $a \cdot a \cdot a =$

18. $a^2 \cdot a^2 \cdot a^2 =$

19. $(-12x^4y) \div (+6x^2) =$

20. $(-18x^6y^4z) \div (+6x^6y^2z) =$

21. $\left(-\frac{3}{4}x^3y\right) \cdot \left(-\frac{4}{7}xy^2\right) =$

22. $\left(+\frac{3}{4}x^3y^2z\right) \div \left(-\frac{9}{4}xy\right) =$

23. $\left(-\frac{3}{4}x^3y^2z\right) \cdot \left(+\frac{9}{4}xy\right) =$

24. $\left(\frac{21}{5}x^2y^4z\right) \cdot \left(\frac{15}{7}xy^2z\right) =$

25. $\left(\frac{21}{5}x^2y^4z\right) \div \left(-\frac{14}{5}xy^2z\right) =$

26. $\left(-\frac{4}{3}x^2\right) \cdot \left(\frac{2}{5}y\right) =$

27. $\left(-\frac{15}{2}x^3y^2z\right) : \left(-\frac{5}{4}xyz\right) =$

28. $5a^3b^2 : (-2ab) =$

29. $(+6a^5b^3c) \div (-3ab^4c^3) =$

30. $\left(-\frac{1}{2}ab^2c^3\right)^3 : \left(-\frac{3}{2}ab^3c^2\right)^2 =$ (*)

(*) gentile concessione di stringher.blog.kataweb.it/ - Commissione e-learning IPSSCART B. Stringher - Udine

=-=

Esercizi riassuntivi

31. $\left(x^3y^2-7x^3y^2+3x^3y^2\right)\div\left(5x^2y-2x^2y\right)=$

32. $\left[\frac{1}{2}a^6b^2\cdot\left(-\frac{1}{2}ab^2\right)+\frac{1}{4}a^4b^2\cdot\frac{2}{3}a^3b^2-2a^7b^4\right]:\left(-\frac{5}{2}a^2b^3\right)=$

33. $\left(-\frac{3}{4}a^2bc^3\right)\cdot\left(+\frac{10}{9}abc^2\right)-\left(\frac{5}{8}a^3c\right)\cdot\left(\frac{2}{5}b^2c^4\right)=$

34. $12x^3y^2:\left(-4xy^2\right)-2xy\cdot\left(-3xy^3\right)+\left(15x^2y\right):\left(3y\right)-6x^2y^4=$ (*)

35. $2x^4:\left(-\frac{2}{3}x^3\right)+\frac{4}{3}x^3y^2:\left(-\frac{1}{3}xy\right)^2+\left(-2xy\right)^2:\left(xy^2\right)=$ (*)

36. $\left[ab\cdot\left(\frac{1}{2}a^2b^3c^2\right)^2\right]^3:\left[-a\cdot\left(-\frac{1}{2}ab^2c\right)^2\right]^5+\frac{4}{3}a^2bc^6m^4:\left(-\frac{1}{3}a^2c^4m^4\right)=$ (*)

37. $\left[\left(-\frac{1}{3}x^2y^3z^4\right)^6\div\left(-\frac{1}{3}x^2y^3z^4\right)^2\right]^3\div\left[\left(-\frac{1}{3}x^2y^3z^4\right)^2\cdot\left(-\frac{1}{3}x^2y^3z^4\right)^3\right]^2-\frac{1}{3}x^4y^6z^8=$

38. $\left\{\left(-\frac{3}{4}xy^2\right)^5:\left[-\frac{3}{4}x^3y^3:x^2y\right]^2\right\}^3:\left(-\frac{3}{4}xy^2\right)^6=$

39. $\left\{-y^2-\left[\frac{1}{2}x^2-\left(\frac{3}{4}x^2-4y^2+xy\right)-\left(\frac{3}{2}xy-\frac{2}{3}x^2\right)\right]\right\}\cdot\frac{3}{5}=$

(*) gentile concessione di stringher.blog.kataweb.it/ - Commissione e-learning IPSSCART B. Stringher - Udine

=-=