TALLER DE MATEMATICAS # 8 CICLO 4

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De los siguientes ejercicios:

a- Escoja 10 y los resuelve.

EJERCICIO 7.

1. $x+2x=3x$
2. $8a+9a=17a$
3. $11b+9b=20b$
4. $-b-5b=-6b$
5. $-8m-m=-9m$
6. $-9m-7m=-16m$
7. $4a^x+5a^x=9a^x$
8. $6a^{x+1}+8a^{x+1}=14a^{x+1}$
9. $-m^{x+1}-5m^{x+1}=-6m^{x+1}$
10. $-3a^{x-2}-a^{x-2}=-4a^{x-2}$
11. $\frac{1}{2}a+\frac{1}{2}a=\frac{1+1}{2}a=\frac{2}{2}a=a$
12. $\frac{3}{5}ab+\frac{1}{10}ab=\frac{6ab+ab}{10}=\frac{7}{10}ab$
13. $\frac{1}{3}xy+\frac{1}{6}xy=\frac{2+1}{6}xy=\frac{3}{6}xy=\frac{1}{2}xy$
14. $-\frac{1}{5}xy-\frac{4}{5}xy=\frac{-1-4}{5}=-\frac{5}{5}xy=-xy$
15. $-\frac{5}{6}a^2b-\frac{1}{8}a^2b=\frac{-20-3}{24}a^2b=-\frac{23}{24}a^2b$
16. $-a-\frac{7}{8}a=\frac{-8-7}{8}a=-\frac{15}{8}a$
17. $8a+9a+6a=23a$
18. $15x+20x+x=36x$
19. $-7m-8m-9m=-24m$
20. $-a^2b-a^2b-3a^2b=-5a^2b$
21. $a^x+3a^x+8a^x=12a^x$
22. $-5a^{x+1}-3a^{x+1}-5a^{x+1}=-13a^{x+1}$
23. $a+\frac{1}{2}a+\frac{2}{3}a=\frac{6+3+4}{6}a=\frac{13}{6}a$
24. $-x-\frac{2}{3}x-\frac{1}{6}x=\frac{-6-4-1}{6}x=-\frac{11}{6}x$
25. $\frac{1}{5}ax+\frac{3}{10}ax+ax=\frac{2+3+10}{10}ax=\frac{15}{10}ax=\frac{3}{2}ax$
26. $-\frac{3}{4}a^2x-\frac{5}{6}a^2x-a^2x=\frac{-9-10-12}{12}a^2x=-\frac{31}{12}a^2x$
27. $11a+8a+9a+11a=39a$
28. $m^{x+1}+3m^{x+1}+4m^{x+1}+6m^{x+1}=14m^{x+1}$
29. $-x^2y-8x^2y-9x^2y-20x^2y=-38x^2y$
30. $-3a^m-5a^m-6a^m-9a^m=-23a^m$
31. $\frac{1}{2}a+\frac{1}{4}a+\frac{1}{8}a+a=\frac{4+2+1+8}{8}a=\frac{15}{8}a$
32. $\frac{2}{5}ax+\frac{1}{2}ax+\frac{1}{10}ax+\frac{1}{20}ax=\frac{8+10+2+1}{20}ax=\frac{21}{20}ax$
33. $0{,}5m+0{,}6m+0{,}7m+0{,}8m=2{,}6m$
34. $-\frac{1}{7}ab-\frac{1}{14}ab-\frac{1}{28}ab-ab$
$=\frac{-4-2-1-28}{28}ab=-\frac{35}{28}ab=-\frac{5}{4}ab$
35. $-\frac{2}{3}x^3y-\frac{1}{6}x^3y-\frac{1}{9}x^3y-\frac{1}{12}x^3y$
$=\frac{-24-6-4-3}{36}x^3y=-\frac{37}{36}x^3y$
36. $ab^2+ab^2+7ab^2+9ab^2+21ab^2=39ab^2$
37. $-m-m-8m-7m-3m=-20m$
38. $-x^{a+1}-8x^{a+1}-4x^{a+1}-5x^{a+1}-x^{a+1}=-19x^{a+1}$
39. $\frac{1}{2}a+\frac{1}{3}a+\frac{1}{4}a+\frac{1}{5}a+\frac{1}{6}a$
$=\frac{30+20+15+12+10}{60}a=\frac{87}{60}a=\frac{29}{20}a$
40. $-\frac{1}{3}ab-\frac{1}{6}ab-\frac{1}{2}ab-\frac{1}{12}ab-\frac{1}{9}ab$
$=\frac{-12-6-18-3-4}{36}ab=-\frac{43}{36}ab$

EJERCICIO 8

1. $8a-6a=2a$
2. $6a-8a=-2a$
3. $9ab-15ab=-6ab$
4. $15ab-9ab=6ab$
5. $2a-2a=0$
6. $-7b+7b=0$
7. $-14xy+32xy=18xy$

b- Busque el valor absoluto de los siguientes polinomios:

$a^3+2^2b-3ab^2$

$x^5-bx^4+abx^3+ab^3x^2$

$m^5+m^4n+m^3n^2-m^2n^2+6$