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Respuestas del ejercicio 91 del algebra de baldor

Descomposición factorial involves grouping terms with a common factor and then factoring out that common factor. This process is demonstrated step-by-step for the 30 problems of Exercise 91. The procedure consists of three steps: 1. Grouping terms with a common factor within parentheses, separated by the sign of the first term in each group. 2. Factoring out the common factor from each group, ensuring that the remaining amounts inside the parentheses are equal. 3. Applying the Factor Común Polinomial procedure to the resulting expressions. Examples include factoring expressions such as $ax + bx + cy + dy$ and $3m^2 - 6mn + 4m - 8n$. The procedure is then applied to Exercise 91, which involves factorizing or decomposing expressions into two factors. The text appears to be a collection of mathematical exercises or problems, with solutions or answers provided for each one. The problems cover various areas of mathematics, including algebra, arithmetic, and geometry. Some examples of the types of problems included are: * Simple arithmetic equations, such as $12 - 15 = ?$ * Algebraic expressions involving variables like x , y , and a * Geometric shapes with calculations involving perimeter, area, and volume * Inequalities and systems of equations The solutions or answers provided for each problem typically involve step-by-step calculations and explanations. The text may be intended as a study aid or resource for students of mathematics, or as a reference guide for professionals in the field. It's worth noting that the text is quite long and dense, with many complex mathematical formulas and equations presented in a concise format. As such, it may not be easily readable or understandable without some prior knowledge of mathematics or algebra. Equations: * $21a - 30b = mn * a^2 - m^2 - 2mn - mn + 2mn = 0$ (equation for "mn" that can be simplified to "mn = 0") * $3a^2 + b^2 - 5ab - ab + b^2 = 0$ (equation for "b" that can be simplified to "b = 0.35y^3 - 0.175xy^2 + 25") * $m - 2/3m - 1/m + a/b - 0.2a^{(m-1)} - b^{(m-2)} = 0$ (equation for "a" that can be simplified to "a = a - b - b + b") Values assigned to literals: * $a = 1 * b = 2 * c = 3 * m = 1/2 * n = 1/3 * p = 1/4$ Solutions for problems 1-18: * Problem 1: $3ab = 6 * Problem 2: 5a^2b^3c = 120 * ...$ (and so on for each problem) Note that the text is mostly made up of mathematical equations and expressions, with some values assigned to literals. The paraphrased version aims to summarize the main points and simplify the notation. The following equations are simplified and rearranged to solve for various variables: 1. $(3a + 2b) - c = ? 2. 5x^2 - x^2 + 9xy - 6xy + 7y^2 = 4x^2 + 3xy + 7y^2 3. ab + bc + cd = ?$ and $2a + 3b + c - 8ab - 3bc - 3cd = 7 4. (-8a^2b) - a^2b + 5ab^2 - 11ab^2 - 7b^3 = ?$ and $(5a + 5b) + 2bc + 2cd = -9ab - 6ab - 7b^2 5. 7a - 4b + 5c - 7a + 4b - 6c = ? 6. m - 8mn + 7mn + 7n^3 = ?$ and $(-c) - 5ax - 7ay - 6az = ? 7. (a - a) + (b + b) - 6 = ?$ and $(m + n) - p = ?$ Given article text here: Paraphrased Text 1. $8a^2 - 4a + 3 = (0)^2 - 4(0) + 3 = 3$, so the equation is true. 2. $a + ab - b = x^2 + xy + y^2 = (x + y/2)^2 - (y/2)^2 + y^2 3. x^2 + xy + y^2 = (x + y/2)^2 - (y/2)^2 + y^2 4. a^3 - b^3 = (a - b)(a^2 + ab + b^2) = (a - b)((x + y/2)^2 - (y/2)^2 + y^2) 5. x^4 - 4x^3 + 6x^2 - 4x + 1 = (x - 1)^4 = (x - 1)(x^3 - 3x^2 + 3x - 1) + 1 6. a + ab - b = x^2 + xy + y^2 = (x + y/2)^2 - (y/2)^2 + y^2 7. $m^3 - n^3 = (m - n)(m^2 + mn + n^2) = (m - n)((x + y/2)^2 - (y/2)^2 + y^2) 8. x^4 + 2x^2 y^2 + y^4 = (x^2 + y^2)^2 = ((x + y/2)^2 - (y/2)^2 + y^2)^2 9. $m^3 - n^3 - (m^2 - n^2)(mn + 1) = 0 = (m - n)((x + y/2)^2 - (y/2)^2 + y^2) 10. a + ab - b = x^2 + xy + y^2 = (x + y/2)^2 - (y/2)^2 + y^2$$$