Exercices de factorisation:

Série 1:

$32\,a^2 - 2\,b^4 =$

$a^2\,x^2 - b^2\,x^2 =$

$4\,x^2 - 16\,a^2 =$

$a^2\,b^2\,c^2 - m^2 =$

$50\,x^4 - 2\,y^2 =$

$256\,x^2 - 64\,a^4 =$

$a^2\,x^2 - 81\,x^2 =$

$16\,x^2\,y^2 - 121\,y^4 =$

$x^4\,y^2 - x^2\,y^4 =$

$3\,a^3\,x - 3\,a\,x^3 =$

Série 2:

$(a - b)^2 - c^2 =$

$(a + b)^2 - (x - y)^2 =$

$(5a + 2b)^2 - (2b - 5a)^2 =$

$(x + a)^2 - (3x - 2a)^2 =$

$(4x - a)^2 - (4a - x)^2 =$

$(a + b + c)^2 - (a - 2b - c)^2 =$

$(x + 1)^2 - (x - 1)^2 =$

$(a + b)^3 - (a - b)^3 =$

$a^2 + 4ab + 4b^2 =$

$9\,a^2 - 12\,ab + 4\,b^2 =$

Série 3:

$a^2 - a + \frac{1}{4} =$

$x^4 + 2x^2 + 1 =$

$x^6 + 6\,x^3 + 9 =$

$ab^2 - 2abc + ac^2 =$

$\frac{x^2}{16} - \frac{3xy}{2} + 9y^2 =$

$4x^2 + xy + \frac{y^2}{16} =$

$9a^4b^2 - 6a^2bc + c^2 =$

$24a^6bc^3 + 54a^4b^3c^3 - 72a^5b^2c^3 =$

$49x^2y^8 + 25a^6b^4 - 70a^3b^2xy^4 =$

$50a^6b^2c^2 + 72a^2b^8c^2 + 120a^4b^5c^2 =$

Exercices de factorisation - Solutions

Série 1:

$2\,(4a - b^2)\,(4a + b^2)$

$x^2\,(a - b)\,(a + b)$

$4\,(x - 2a)\,(x + 2a)$

$(abc - m)\,(abc + m)$

$2\,(5x^2 - y)\,(5x^2 + y)$

$64\,(2x - a^2)\,(2x + a^2)$

$x^2\,(a - 9)\,(a + 9)$

$(4xy - 11y^2)\,(4xy + 11y^2)$

$x^2y^2\,(x - y)\,(x + y)$

$3ax\,(a - x)\,(a + x)$

Série 2:

$(a - b - c)\,(a - b + c)$

$(a + b - x + y)\,(a + b + x - y)$

$40\,ab$

$(4x - a)\,(-2x + 3a)$

$15\,(x + a)\,(x - a)$

$(3b + 2c)\,(2a - b)$

$4x$

$2b\,(3a^2 + b^2)$

$(a + 2b)^2$

$(3a - 2b)^2$

Série 3:

$(a - \frac{1}{2})^2$

$(x^2 + 1)^2$

$(x^3 + 3)^2$

$a\,(b - c)^2$

$(\frac{x}{4} - 3y)^2$

$(2x + \frac{y}{4})^2$

$(3a^2b - c)^2$

$6a^4bc^3\,(2a - 3b)^2$

$(7xy^4 - 5a^3b^2)^2$

$2a^2b^2c^2\,(5a^2 + 6b^3)^2$