

### 3. Factorisez les Polynômes Mathématiques 9

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Factorisez les polynômes en trouvant le plus grand facteur commun parmi tous les termes.

$15y + 5 = 5(3y + 1)$ $7a + 7 =$ $12n - 3 =$ $5 + 20x =$ $6x - 2 =$	$14n + 21p + 7 = 7(2n + 3p + 1)$ $9x - 18y + 3 =$ $11 - 22a + 44b =$ $5x^2 + 10x + 5 =$ $28x^2 + 28x + 7 =$
$24x + 28 = 4(6x + 7)$ $10a + 25b =$ $40n - 24 =$ $33p + 55 =$ $18x - 30y =$ $100 + 40z =$ $56x^2 + 42 =$	$20x + 60y - 100z = 20(x + 3y - 5z)$ $14a - 12b + 6c =$ $24 + 48x + 42x^2 =$ $50a - 20b + 30c =$ $6c^2 + 27c - 15 =$ $12r + 36s - 60t =$ $18x - 12y - 3 =$
$x^2 + 3x = x(x + 3)$ $5a^2 + 2a =$ $y^2 - 7y =$ $12x - x^2 =$ $3x^3 + 2x^2 =$ $x^4 - 5x^2 =$	$a^3 + 5a^2 + 3a = a(a^2 + 5a + 3)$ $2x^3 + x^2 - 8x =$ $ab + 2b + b^2 =$ $5x^2y + xy + 7y =$ $x^3 - 4x^2 + x =$ $ab + b^2 + 2bc =$

$$5x^2 + 10x = 5x(x + 2)$$

$$8a^2 - 2a =$$

$$4y^5 + 3y^2 =$$

$$x^2y^2 + x^3y =$$

$$x^2y^2 + xy =$$

$$3p + 12p^2 =$$

$$6m^3 - 9m^2 =$$

$$4x^2 + 6xy =$$

$$10t^5 - 15t^4 =$$

$$12a^2 - 18ab =$$

$$7x^3 - 7x^2 =$$

$$25h + 30hi =$$

$$x^6 + x^5 - x^4 = x^4(x^2 + x - 1)$$

$$a^7 - a^5 - a^3 =$$

$$5w^5 + 3w^4 + 6w^3 =$$

$$6x^2y - xy^2 + 2x^2y^2 =$$

$$x^3y + x^2y + x^2y^2 =$$

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

$$12a^3 - 9a^2 - 6a = 3a(4a^2 - 3a - 2)$$

$$10x^3 + 4x^2 + 6x =$$

$$8xy + 8y^2 - 8yz =$$

$$4x^5 - 4x^4 + 8x^3 =$$

$$63p^4 + 81p^3 - 72p^2 =$$

$$60a^2 + 30ab - 90ac =$$