



Ficha interactiva:

FACTORIZACIÓN

GRADO: secundaria

ÁREA: Álgebra



INSTRUCCIONES: De las tres opciones que se te presentan, selecciona la que consideres correcta

1. $a^3 + a^2 + a$

$a(a^2 + a + 1)$

$a(a^2 - a + 1)$

$a^2(a + 1 + a)$

2. $4x^2 - 8x + 2$

$2x(x^2 + 4x - 1)$

$2(-2x^2 - 4x + 1)$

$2(2x^2 - 4x + 1)$

3. $15y^3 + 20y^2 - 5y$

$5y(3y^2 + 4y - 1)$

$5y(y^2 - 4y + 1)$

$5y(3y + 4y - 1)$

4. $a^3 - a^2x + ax^2$

$a(a^2 + a + 1)$

$a(a^2 - ax + x^2)$

$a^2(a + ax + x)$

5. $2a^2x + 2ax^2 - 3ax$

$ax(2a + 2x - 3)$

$a(2ax - 2x + 3)$

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

6. $x^3 + x^5 - x^7$

$x^2(x + x^2 + x^2)$

$x^3(1 + x^2 - x^4)$

$a^2(a + x^2 + x^4)$

7. $14x^2y^2 - 28x^3 + 56x^4$

$14x^2(y^2 - 2x - 4x^2)$

$7x^2(2y^2 - 2x + 4x)$

$14x^2(y^2 - 2x + 4x^2)$



8. $34ax^2 + 51a^2y - 68ay^2$

$17a(x^2 + 3ay + 4y)$

$17a(2x^2 + 3ay - 4y^2)$

$17a^2(2x + 3ay + 4y)$

9. $96 - 48mn^2 + 144n^3$

$48(2 - mn^2 + 3n^3)$

$48(2 + mn + 3n^3)$

$48(2 + mn^2 + 3n)$

10. $a^2b^2c^2 - a^2c^2x^2 + a^2c^2y^2$

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

$a^2c^2(b - x^2 - y^2)$

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