$256a^{12} - 289b^{4}m^{10} = (16a - 17bm)^2$

$\sqrt{}$

$16a \qquad 17bm$

$2x^2 - 3xy - 4x + 6y$

$(3xy + 6y) + (2x^2 + 4x)$

$3xy(1 + 2) + 2x(1 + 2)$

$(1 + 2)(3xy + 2x)$

3	6	3	2	4	2
1	2		1	2	

$9(x-y)^2+12(x-y)(x+y)+4(x+y)^2$

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

$(7x)^2$

$a^2x-ax^2-2a^2y+2axy+x^3-2x^2y$

$a^2x(1+y(a^2-1))(2-2a^2)^2+2axy(1a^2)+x^3y(3-2x)$

Desarrollo

1) $16xy^3 - 9nx^2y^3 + 12nx^2y^3 - 3n^2x^4y^3$

$(9nx^2y^3 + 12nx^3y^3) + (16xy^3 - 3n^2x^4y^3)$

$3nx^2y^3(3+4x^1) + 3xy^3(2-1n^2x^3)$

9	12	3
3	4	

$5x(a+1) + (x+1)(-1-a)$

$5x(a+1-x-1-ax-a)$

$5x(a-x-ax)$

$5x(a(1-x))$

$5ax(1-x)$

6	3	3
2	1	

$16x^6 + y^4 - 2x^3y^2$

$\sqrt{16}$

$x(16x^5 - 2x^2y + y^4)$

$x[(2x)^3 + (-y^2)^3 - 3(2x)(-y^2)(2x+(-y^2))]$

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

6) $-20mx^2y^3 \div 4xy^3$

$-5mx^3y^6$

Parte B

Preimagen = x
Imagen = y

1)

1 = 2
2 = $]-3, +\infty[$
3 = -1
4 = A

2)

1 = $[-2, +\infty[$
2 = $[-3, +\infty[$
3 = 0
4 = 4

3)

1 = $[1, +\infty[$
2 = $[0, +\infty[$
3 = -1
4 = 0

Examen

1)

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

$2x^2 - x$

2) $\frac{1}{2}b^2m - \frac{3}{5}cn - \frac{2}{1} - \frac{1}{10}cn + \frac{3}{4}b^2m$

$\frac{5}{4}b^2m + \frac{1}{2}cn - \frac{2}{1} + \left(\frac{3}{5}cn - \frac{2}{1} - \frac{1}{10}cn\right)$

3) $\frac{3}{7}a^2 + \frac{1}{3}ab - \frac{3}{5}b^2 + \left(\frac{5}{14}a^2 - \frac{1}{2}ab + \frac{1}{8}\right)$

$\frac{11}{14}a^2 - \frac{1}{16}ab + \frac{29}{40}$ Cambie signo cuando pase la operacion

4) $-\frac{2}{3}x^4y\left(-3xy + \frac{4}{5}y - 28x^7y^2\right)$

$2x^4y + \frac{8}{15}y - \frac{56}{3}x^3y^1$

5) $\left(\frac{1}{2}a - \frac{1}{3}b\right)\left(\frac{5}{6}a^4 - \frac{2}{3}b^4\right)$

$\frac{5a^5}{12} - \frac{ab^4}{3} - \frac{5ba^4}{18} + \frac{2b^5}{4}$