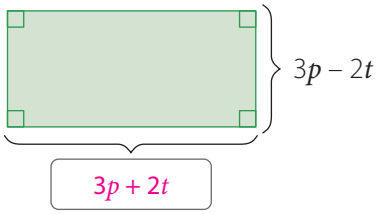
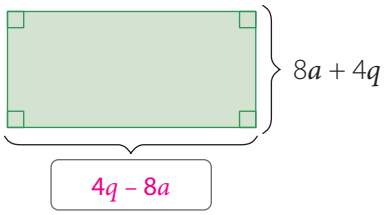
Suma por su diferencia

1. Escribe la medida faltante de cada uno de los rectángulos considerando el área dada.

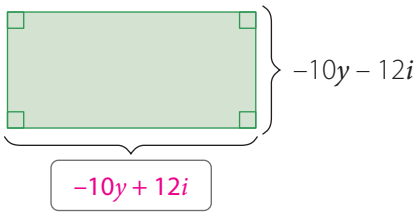
a. Área: $9p^2 - 4t^2$



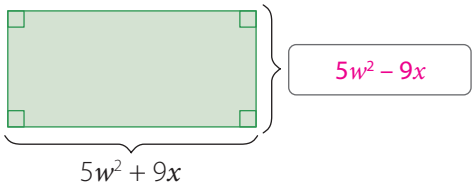
b. Área: $-64a^2 + 16q^2$



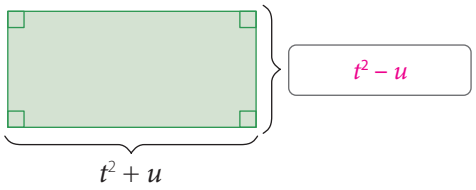
c. Área: $100y^2 - 144i^2$



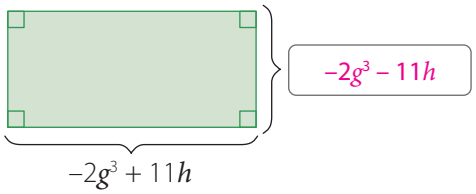
d. Área: $25w^4 - 81x^2$



e. Área: $t^4 - u^2$



f. Área: $4g^6 - 121h^2$



2. Une cada uno de los resultados de las sumas por su diferencia de la columna A con su producto ubicado en la columna B.

Columna A	Columna B
a. $49x^6 - 16y^2$	$(2u + 3v)(2u - 3v)$
b. $4u^2 - 9v^2$	$(-7x^3 - 4y)(-7x^3 + 4y)$
c. $-49x^6 + 16y^2$	$(2u + 3v)(-2u + 3v)$
d. $-4u^2 + 9v^2$	$(-7x^3 + 4y)(7x^3 + 4y)$
e. $4x^2 - 9y^2$	$(4u + 5v)(4u - 5v)$
f. $16u^2 - 25v^2$	$(2x + 3y)(2x - 3y)$
g. $-x^8 + 4y^2$	$(3u + 2v)(-3u + 2v)$
h. $-9u^2 + 4v^2$	$(-x^4 + 2y)(x^4 + 2y)$

3. Desarrolla las siguientes sumas por su diferencia:

a. $(2v + 1)(2v - 1)$

$(2v + 1) \cdot (2v - 1) = 4v^2 - 1$

b. $(a^3 + 1)(a^3 - 1)$

$(a^3 + 1) \cdot (a^3 - 1) = a^6 - 1$

c. $(x - 7)(x + 7)$

$(x - 7) \cdot (x + 7) = x^2 - 49$

d. $(-5x + 8)(8 + 5x)$

$(8 - 5x)(8 + 5x) = 64 - 25x^2$

e. $\left(y + \frac{1}{2}\right)\left(y - \frac{1}{2}\right)$

$\left(y + \frac{1}{2}\right) \cdot \left(y - \frac{1}{2}\right) = y^2 - \frac{1}{4}$

f. $\left(\frac{1}{p} + n^4\right)\left(\frac{1}{p} - n^4\right)$

$\left(\frac{1}{p} + n^2\right) \cdot \left(\frac{1}{p} - n^4\right) = \left(\frac{1}{p}\right)^2 - n^8$

g. $\left(\frac{r^3}{2} - 8r\right)\left(-\frac{r^3}{2} - 8r\right)$

$\left(\frac{r^3}{2} - 8r\right) \cdot \left(-\frac{r^3}{2} - 8r\right) = 64r^2 - \frac{r^6}{4}$

h. $\left(-\frac{y}{3} - \frac{y^2}{3}\right)\left(-\frac{y^2}{3} + \frac{y}{3}\right)$

$\left(-\frac{y}{3} - \frac{y^2}{3}\right)\left(-\frac{y^2}{3} + \frac{y}{3}\right) = \left(\frac{y^2}{9} - \frac{y^4}{9}\right)$

4. Determina el término u operación faltante en cada igualdad.

a. $(3a + b)(3a - b) = [\,9a^2\,] - b^2$

b. $(n^4 + 8)(n^4 - 8) = n^8 - [\,64\,]$

c. $\left([\,\frac{1}{3}\,] + i^3\right)\left([\,\frac{1}{3}\,] - i^3\right) = \frac{1}{9} - i^6$

d. $(4w^5 - s^7)(-4w^5 - s^7) = [\,s^{14}\,] - [\,16w^{10}\,]$

e. $(-9z + c)(9z + c) = -81z^2 [\,+\,] c^2$

f. $\left([\,\frac{1}{2}\,] + p\right)\left(\frac{1}{2} - p\right) = \frac{1}{4} - p^2$

g. $\left(\left(\frac{x}{7}\right)^6 + [\,9\,]\right)\left(\left(\frac{x}{7}\right)^6 - 9\right) = \left(\frac{x}{7}\right)^{12} - 81$

h. $(2k + [\,9r^5\,])(2k - [\,9r^5\,]) = 4k^2 - 81r^{10}$

i. $(-f^6 - 2d^3)([\,-f^6\,] + [\,2d^3\,]) = f^{12} - 4d^6$

j. $(-3b - h)(-3b + h) = 9b^2 [\,-\,] h^2$