

PROBLEMAS DE EXPRESIONES ALGEBRAICAS Y OPERACIONES

Problema 24:

Efectuar la siguiente división:

$$\frac{5a^7b + 8a^6b^2 - 13a^5b^3 + 38a^4b^4 - 26a^3b^5 + 24a^2b^6}{5a^2b - 2ab^2 + 6b^3}$$

Solución Problema 24:

$$\frac{5a^7b + 8a^6b^2 - 13a^5b^3 + 38a^4b^4 - 26a^3b^5 + 24a^2b^6}{5a^2b - 2ab^2 + 6b^3}$$

$$5a^7b + 8a^6b^2 - 13a^5b^3 + 38a^4b^4 - 26a^3b^5 + 24a^2b^6 : 5a^2b - 2ab^2 + 6b^3$$

$$\underline{-5a^7b + 2a^6b^2 - 6a^5b^3} \qquad \qquad \qquad \underline{a^5 + 2a^4b - 3a^3b^2 + 4a^2b^3}$$

$$10a^6b^2 - 19a^5b^3 + 38a^4b^4 - 26a^3b^5 + 24a^2b^6$$

$$\underline{-10a^6b^2 + 4a^5b^3 - 12a^4b^4}$$

$$-15a^5b^3 + 26a^4b^4 - 26a^3b^5 + 24a^2b^6$$

$$\underline{+15a^5b^3 - 6a^4b^4 + 18a^3b^5}$$

$$+ 20a^4b^4 - 8a^3b^5 + 24a^2b^6$$

$$- 20a^4b^4 + 8a^3b^5 - 24a^2b^6$$

$$0$$