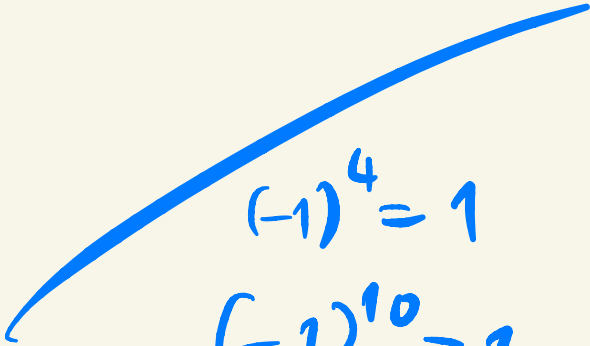


$$7z - 8z + 9z^{(-1)^4} - 5z^{(-1)^{10}}$$

$$= 7z - 8z + 9z^1 - 5z^1$$

$$= (7 - 8 + 9 - 5)z$$

$$= 3z$$


$$(-1)^4 = 1$$

$$(-1)^{10} = 1$$

$$z^{10} + 2z^{10} + 3z^{10}$$

$$= (1 + 2 + 3)z^{10}$$

$$2z^{21} - 3z^{21} + 5z^{21} - 7z^{21} - 8z^{21}$$

$$= (2 - 3 + 5 - 7 - 8)z^{21}$$

$$= -11z^{21}$$

$$\theta - \theta + \theta - \theta + \theta - \theta + \theta$$

$$= (1 - 1 + 1 - 1 + 1 - 1 + 1)\theta$$

$$= 1\theta = \theta$$

$$2\theta^5 + 3\theta^5 = (2+3)\theta^5 = 5\theta^5$$

$$2\theta^5 - 3\theta^5 = (2-3)\theta^5 = -1\theta^5$$

$$-2\theta^5 - 3\theta^5 = (-2-3)\theta^5 = -5\theta^5$$

$$-2\theta^5 + 3\theta^5 = (-2+3)\theta^5 = 1\theta^5$$

$$\begin{aligned} & 36\eta^{45} - 9\eta^{45} + 2\eta^{45} + \eta^{45} \\ &= (36 - 9 + 2 + 1) \eta^{45} \\ &= 30 \eta^{45} \end{aligned}$$

$$\begin{aligned} & (1x^4)^2 + 3x^8 - x^{4 \cdot 2} + 3x^{\frac{40}{5}} \\ &= 1^2 x^{4 \cdot 2} + 3x^8 - x^8 + 3x^8 \\ &= 1x^8 + 3x^8 - x^8 + 3x^8 \\ &= (1 + 3 - 1 + 3)x^8 \\ &= 6x^8 \end{aligned}$$

$$(2\eta^3 \cdot \eta^3) + 2\eta^6$$

$$= 2 \cdot 1 \eta^{3+3} + 2\eta^6$$

$$= 2\eta^6 + 2\eta^6$$

$$= (2+2)\eta^6$$

$$= 4\eta^6$$

Review

Πρόσθεση / Αφαίρεση μονωνύμων

$$\square x^A + \diamond x^A = (\square + \diamond) x^A$$

$$\square x^A - \diamond x^A = (\square - \diamond) x^A$$

Παράδειγμα: $3x^5 + 7x^5 = (3+7)x^5$
 $= 10x^5$

$$3x^5 - 7x^5 = (3-7)x^5 = -4x^5$$

Review

Αναγωγή ομοίων όρων

Παράδειγμα

$$3x^5 + 8x^6 + 7x^5 + 3x^6$$

- Βρίσκω τα όμοια μονώυμα

$3x^5$ και $7x^5$ είναι όμοια

$8x^6$ και $3x^6$ είναι όμοια

- Προσθέτω τα όμοια μονώυμα

$$3x^5 + 8x^6 + 7x^5 + 3x^6$$

$$= 3x^5 + 7x^5 + 8x^6 + 3x^6$$

$$= 10x^5 + 11x^6$$