

Β ΛΥΚΕΙΟΥ ΑΛΓΕΒΡΑ

13.1 1)

$$\alpha) \quad \alpha' \text{ μέλος} = 4\eta\mu^2\omega + 4\sigma\upsilon\nu^2\omega = 4(\eta\mu^2\omega + \sigma\upsilon\nu^2\omega) = 4 \cdot 1 = 4 = \beta' \text{ μέλος}$$

$$\beta) \quad \alpha' \text{ μέλος} = 1 - (\eta\mu^2\omega - \sigma\upsilon\nu^2\omega) = 1 - \eta\mu^2\omega + \sigma\upsilon\nu^2\omega \stackrel{1-\eta\mu^2\omega=\sigma\upsilon\nu^2\omega}{=} \sigma\upsilon\nu^2\omega + \sigma\upsilon\nu^2\omega = 2\sigma\upsilon\nu^2\omega = \beta' \text{ μέλος}$$

13.1 2)

$$\alpha' \text{ μέλος} = 7\eta\mu^2\omega + 7\sigma\upsilon\nu^2\omega = 7(\eta\mu^2\omega + \sigma\upsilon\nu^2\omega) = 7 \cdot 1 = 7 = \beta' \text{ μέλος}$$

13.1 3)

$$\alpha' \text{ μέλος} = 5\eta\mu^2\omega + 5\sigma\upsilon\nu^2\omega = 5(\eta\mu^2\omega + \sigma\upsilon\nu^2\omega) = 5 \cdot 1 = 5 = \beta' \text{ μέλος}$$

13.1 4)

$$\alpha' \text{ μέλος} = \alpha\eta\mu^2\omega + \alpha\sigma\upsilon\nu^2\omega = \alpha(\eta\mu^2\omega + \sigma\upsilon\nu^2\omega) = \alpha \cdot 1 = \alpha = \beta' \text{ μέλος}$$

13.1 5)

$$\alpha' \text{ μέλος} = x\eta\mu^2\omega + x\sigma\upsilon\nu^2\omega = x(\eta\mu^2\omega + \sigma\upsilon\nu^2\omega) = x \cdot 1 = x = \beta' \text{ μέλος}$$

13.1 6)

$$\alpha' \text{ μέλος} = \eta\mu x \sigma\upsilon\nu^2\omega + \eta\mu x \eta\mu^2\omega = \eta\mu x (\sigma\upsilon\nu^2\omega + \eta\mu^2\omega) = \eta\mu x \cdot 1 = \eta\mu x = \beta' \text{ μέλος}$$

13.1 7)

$$\alpha' \text{ μέλος} = \eta\mu^3\omega + \eta\mu\omega\sigma\upsilon\nu^2\omega = \eta\mu\omega(\eta\mu^2\omega + \sigma\upsilon\nu^2\omega) = \eta\mu\omega \cdot 1 = \eta\mu\omega = \beta' \text{ μέλος}$$

13.1 8)

$$\alpha' \text{ μέλος} = \sigma\upsilon\nu^3\omega + \sigma\upsilon\nu\omega \cdot \eta\mu^2\omega = \sigma\upsilon\nu\omega(\sigma\upsilon\nu^2\omega + \eta\mu^2\omega) = \sigma\upsilon\nu\omega \cdot 1 = \sigma\upsilon\nu\omega = \beta' \text{ μέλος}$$

13.1 9)

$$\alpha' \text{ μέλος} = 1 - (\sigma\upsilon\nu^2\omega - \eta\mu^2\omega) = 1 - \sigma\upsilon\nu^2\omega + \eta\mu^2\omega \stackrel{1-\sigma\upsilon\nu^2\omega=\eta\mu^2\omega}{=} \eta\mu^2\omega + \eta\mu^2\omega = 2\eta\mu^2\omega = \beta' \text{ μέλος}$$