

Β ΛΥΚΕΙΟΥ ΑΛΓΕΒΡΑ

16.5 1)

$$\alpha) \quad \eta\mu x = \frac{1}{2} \Rightarrow \eta\mu x = \eta\mu \frac{\pi}{6} \Rightarrow x = 2\kappa\pi + \frac{\pi}{6} \quad \text{ή} \quad x = 2\kappa\pi + \pi - \frac{\pi}{6} = 2\kappa\pi + \frac{5\pi}{6}, \quad \kappa \in \mathbb{Z}$$

$$\beta) \quad \sigma\upsilon\nu x = \frac{\sqrt{3}}{2} \Rightarrow \sigma\upsilon\nu x = \sigma\upsilon\nu \frac{\pi}{6} \Rightarrow x = 2\kappa\pi + \frac{\pi}{6} \quad \text{ή} \quad x = 2\kappa\pi - \frac{\pi}{6}, \quad \kappa \in \mathbb{Z}$$

$$\gamma) \quad \varepsilon\varphi x = 1 \Rightarrow \varepsilon\varphi x = \varepsilon\varphi \frac{\pi}{4} \Rightarrow x = \kappa\pi + \frac{\pi}{4}, \quad \kappa \in \mathbb{Z}$$

$$\delta) \quad \sigma\varphi x = 0 \Rightarrow \sigma\varphi x = \sigma\varphi \frac{\pi}{2} \Rightarrow x = \kappa\pi + \frac{\pi}{2}, \quad \kappa \in \mathbb{Z}$$

16.5 2)

$$\eta\mu x = \frac{\sqrt{3}}{2} \Rightarrow \eta\mu x = \eta\mu \frac{\pi}{3} \Rightarrow x = 2\kappa\pi + \frac{\pi}{3} \quad \text{ή} \quad x = 2\kappa\pi + \pi - \frac{\pi}{3}, \quad \kappa \in \mathbb{Z}$$

16.5 3)

$$\sigma\upsilon\nu x = \frac{1}{2} \Rightarrow \sigma\upsilon\nu x = \sigma\upsilon\nu \frac{\pi}{3} \Rightarrow x = 2\kappa\pi \pm \frac{\pi}{3}, \quad \kappa \in \mathbb{Z}$$

16.5 4)

$$\varepsilon\varphi x = \sqrt{3} \Rightarrow \varepsilon\varphi x = \varepsilon\varphi \frac{\pi}{3} \Rightarrow x = \kappa\pi + \frac{\pi}{3}, \quad \kappa \in \mathbb{Z}$$

16.5 5)

$$\sigma\varphi x = \sqrt{3} \Rightarrow \sigma\varphi x = \sigma\varphi \frac{\pi}{6} \Rightarrow x = \kappa\pi + \frac{\pi}{6}, \quad \kappa \in \mathbb{Z}$$

16.5 6)

$$\eta\mu x = \frac{\sqrt{2}}{2} \Rightarrow \eta\mu x = \eta\mu \frac{\pi}{4} \Rightarrow x = 2\kappa\pi + \frac{\pi}{4} \quad \text{ή} \quad x = 2\kappa\pi + \pi - \frac{\pi}{4}, \quad \kappa \in \mathbb{Z}$$

16.5 7)

$$\sigma\varphi x = 1 \Rightarrow \sigma\varphi x = \sigma\varphi \frac{\pi}{4} \Rightarrow x = \kappa\pi + \frac{\pi}{4}, \quad \kappa \in \mathbb{Z}$$

16.5 8)

$$\eta\mu x = 0 \Rightarrow \eta\mu x = \eta\mu 0 \Rightarrow x = 2\kappa\pi \quad \text{ή} \quad x = 2\kappa\pi + \pi \Rightarrow x = \kappa\pi, \quad \kappa \in \mathbb{Z}$$

16.5 9)

$$\sigma\upsilon\nu x = 1 \Rightarrow \sigma\upsilon\nu x = \sigma\upsilon\nu \frac{\pi}{2} \Rightarrow x = 2\kappa\pi \pm \frac{\pi}{2}, \quad \kappa \in \mathbb{Z}$$

16.5 10)

$$\varepsilon\varphi x = \frac{\sqrt{3}}{3} \Rightarrow \varepsilon\varphi x = \varepsilon\varphi \frac{\pi}{6} \Rightarrow x = \kappa\pi + \frac{\pi}{6}, \quad \kappa \in \mathbb{Z}$$

16.5 11)

$$\sigma\varphi x = \frac{\sqrt{3}}{3} \Rightarrow \sigma\varphi x = \sigma\varphi \frac{\pi}{3} \Rightarrow x = \kappa\pi + \frac{\pi}{3}, \quad \kappa \in \mathbb{Z}$$

16.5 12)

$$\sigma\upsilon\nu x = \frac{\sqrt{2}}{2} \Rightarrow \sigma\upsilon\nu x = \sigma\upsilon\nu \frac{\pi}{4} \Rightarrow x = 2\kappa\pi \pm \frac{\pi}{4}, \quad \kappa \in \mathbb{Z}$$

16.5 13)

$$\varepsilon\varphi x = 0 \Rightarrow \varepsilon\varphi x = \varepsilon\varphi 0 \Rightarrow x = \kappa\pi, \quad \kappa \in \mathbb{Z}$$

16.5 14)

$$\sigma\upsilon\nu x = 0 \Rightarrow \sigma\upsilon\nu x = \sigma\upsilon\nu \frac{\pi}{2} \Rightarrow x = 2\kappa\pi \pm \frac{\pi}{2}, \quad \kappa \in \mathbb{Z}$$

$$\eta_{\mu}x = 1 \Rightarrow \eta_{\mu}x = \eta_{\mu}\frac{\pi}{2} \Rightarrow x = 2\kappa\pi + \frac{\pi}{2} \quad , \quad \kappa \in \mathbb{Z}$$