

Γ ΛΥΚΕΙΟΥ ΜΕΡΟΣ Α

15.16 1)

$$\alpha) \left[\varepsilon\varphi(x^2 - x) \right]' = \frac{1}{\sigma\upsilon\nu^2(x^2 - x)} \cdot (x^2 - x)' = \frac{2x - 1}{\sigma\upsilon\nu^2(x^2 - x)}$$

$$\beta) \left[\varepsilon\varphi(2 + \eta\mu x) \right]' = \frac{1}{\sigma\upsilon\nu^2(2 + \eta\mu x)} \cdot (2 + \eta\mu x)' = \frac{\sigma\upsilon\nu x}{\sigma\upsilon\nu^2(2 + \eta\mu x)}$$

15.16 2)

$$\frac{1}{\sigma\upsilon\nu^2(2x^4 - 1)} \cdot (2x^4 - 1)' = \frac{8x^3}{\sigma\upsilon\nu^2(2x^4 - 1)}$$

15.16 3)

$$\frac{1}{\sigma\upsilon\nu^2(4x - 3)} \cdot (4x - 3)' = \frac{4}{\sigma\upsilon\nu^2(4x - 3)}$$

15.16 4)

$$\frac{1}{\sigma\upsilon\nu^2(\sigma\upsilon\nu x)} \cdot (\sigma\upsilon\nu x)' = \frac{-\eta\mu x}{\sigma\upsilon\nu^2(\sigma\upsilon\nu x)}$$

15.16 5)

$$\frac{1}{\sigma\upsilon\nu^2(\eta\mu x)} \cdot (\eta\mu x)' = \frac{\sigma\upsilon\nu x}{\sigma\upsilon\nu^2(\eta\mu x)}$$

15.16 6)

$$\frac{1}{\sigma\upsilon\nu^2(\varepsilon\varphi x)} \cdot (\varepsilon\varphi x)' = \frac{1}{\sigma\upsilon\nu^2(\varepsilon\varphi x) \cdot \sigma\upsilon\nu^2 x}$$

15.16 7)

$$\frac{1}{\sigma\upsilon\nu^2(\sigma\varphi x)} \cdot (\sigma\varphi x)' = -\frac{1}{\sigma\upsilon\nu^2(\sigma\varphi x) \cdot \eta\mu^2 x}$$

15.16 8)

$$\frac{1}{\sigma\upsilon\nu^2\left(\frac{1}{x}\right)} \cdot \left(\frac{1}{x}\right)' = -\frac{1}{x^2 \sigma\upsilon\nu^2\left(\frac{1}{x}\right)}$$

15.16 9)

$$\frac{1}{\sigma\upsilon\nu^2(e^x)} \cdot (e^x)' = \frac{e^x}{\sigma\upsilon\nu^2(e^x)}$$

15.16 10)

$$\frac{1}{\sigma\upsilon\nu^2(\ln x)} \cdot (\ln x)' = \frac{1}{x \sigma\upsilon\nu^2(\ln x)}$$

15.16 11)

$$\frac{1}{\sigma\upsilon\nu^2(6^x)} \cdot (6^x)' = \frac{6^x \ln 6}{\sigma\upsilon\nu^2(6^x)}$$

15.16 12)

$$\frac{1}{\sigma v v^2(\sqrt{x})} \cdot (\sqrt{x})' = \frac{1}{2\sqrt{x}\sigma v v^2(\sqrt{x})}$$