15.14 1)

α) $\left[\eta\mu\left(2\ln x-x\right)\right]'=\sigma\upsilon\nu\left(2\ln x-x\right)\cdot\left(2\ln x-x\right)'=\sigma\upsilon\nu\left(2\ln x-x\right)\cdot\left(\frac{2}{x}-1\right)$

β) $\left[\eta\mu\left(1+\sigma\upsilon\nu x\right)\right]'=\sigma\upsilon\nu\left(1+\sigma\upsilon\nu x\right)\cdot\left(1+\sigma\upsilon\nu x\right)'=\sigma\upsilon\nu\left(1+\sigma\upsilon\nu x\right)\cdot\left(-\eta\mu x\right)$

15.14 2)

$$\sigma\upsilon\nu\left(x^2-7x\right)\cdot\left(x^2-7x\right)'=\left(2x-7\right)\sigma\upsilon\nu\left(x^2-7x\right)$$

15.14 3)

$$\sigma\upsilon\nu\left(x^4-x^3\right)\cdot\left(x^4-x^3\right)'=\left(4x^3-3x^2\right)\sigma\upsilon\nu\left(x^4-x^3\right)$$

15.14 4)

$$\sigma\upsilon\nu\left(\sigma\upsilon\nu x\right)\cdot\left(\sigma\upsilon\nu x\right)'=\sigma\upsilon\nu\left(\sigma\upsilon\nu x\right)\cdot\left(-\eta\mu x\right)=-\sigma\upsilon\nu\left(\sigma\upsilon\nu x\right)\cdot\eta\mu x$$

15.14 5)

$$\sigma\upsilon\nu\left(\eta\mu x\right)\cdot\left(\eta\mu x\right)'=\sigma\upsilon\nu\left(\eta\mu x\right)\cdot\sigma\upsilon\nu x$$

15.14 6)

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

15.14 7)

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

15.14 8)

$$\sigma\upsilon\nu\left(e^x\right)\cdot\left(e^x\right)'=e^x\cdot\sigma\upsilon\nu\left(e^x\right)$$

15.14 9)

$$\sigma\upsilon\nu\left(\ln x\right)\cdot\left(\ln x\right)'=\frac{\sigma\upsilon\nu\left(\ln x\right)}{x}$$

15.14 10)

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

15.14 11)

$$\sigma\upsilon\nu\left(4^x\right)\cdot\left(4^x\right)'=4^x\ln 4\cdot\sigma\upsilon\nu\left(4^x\right)$$

15.14 12)

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