17.19

$$\alpha' \text{ μέλος} = \left(1+\frac{\sigma\upsilon\nu x-1}{\eta\mu x}\right)\left(1+\frac{\eta\mu x+1}{\sigma\upsilon\nu x}\right)=$$

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

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

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

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

$$=\frac{2\eta\mu x\cdot\sigma\upsilon\nu x}{\eta\mu x\cdot\sigma\upsilon\nu x}=2=$$

$$=\beta' \text{ μέλος}$$