

*** ΑΡΧΙΚΕΣ ΣΥΝΑΡΤΗΣΕΙΣ**

* $f(x) = 0$	\Rightarrow	$F(x) = c$
* $f(x) = 1$	\Rightarrow	$F(x) = x + c$
* $f(x) = \alpha$	\Rightarrow	$F(x) = \alpha x + \beta$
* $f(x) = x$	\Rightarrow	$F(x) = \frac{x^2}{2} + c$
* $f(x) = x^2$	\Rightarrow	$F(x) = \frac{x^3}{3} + c$
* $f(x) = x^\rho \quad \rho \neq -1, \rho \in \mathbb{R}$	\Rightarrow	$F(x) = \frac{x^{\rho+1}}{\rho+1} + c$
* $f(x) = x^{-1} = \frac{1}{x} / \mathbb{R}^*$	\Rightarrow	$F(x) = \ln x + c$
* $f(x) = \sigma \nu x$	\Rightarrow	$F(x) = \eta \mu x + c$
* $f(x) = \eta \mu x$	\Rightarrow	$F(x) = -\sigma \nu x + c$
* $f(x) = \frac{1}{\sigma \nu^2 x} = 1 + \epsilon \phi^2 x$	\Rightarrow	$F(x) = \epsilon \phi x + c$
* $f(x) = \frac{1}{\eta \mu^2 x} = 1 + \sigma \phi^2 x$	\Rightarrow	$F(x) = -\sigma \phi x + c$
* $f(x) = \alpha^x \quad (0 < \alpha \neq 1)$	\Rightarrow	$F(x) = \frac{\alpha^x}{\ln \alpha} + c$
* $f(x) = e^x$	\Rightarrow	$F(x) = e^x + c$
* $f(x) = \frac{\eta \mu x}{\sigma \nu^3 x} = \frac{\eta \mu x}{\sigma \nu x} \cdot \frac{1}{\sigma \nu^2 x} = \epsilon \phi x \cdot (\epsilon \phi x)'$	\Rightarrow	$F(x) = \frac{\epsilon \phi^2 x}{2} + c$
* $f(x) = \ln x = \ln x + 1 - 1 = x' \ln x + x \cdot \frac{1}{x} - 1$	\Rightarrow	$F(x) = x \cdot \ln x - x + c$