Tablica Laplaceovih transformata i pripadnih originala

$$1 \quad \circ\!\!-\!\!\bigcirc \quad \delta(t) \quad (\text{'delta' funkcija})$$

$$p^n \quad \circ\!\!-\!\!\bigcirc \quad \delta^{(n)}(t)$$

$$\frac{1}{p} \quad \circ\!\!-\!\!\bigcirc \quad S(t)$$

$$\frac{1}{p^n} \quad \circ\!\!-\!\!\bigcirc \quad \frac{t^{n-1}}{(n-1)!} \cdot S(t)$$

$$\text{za } a \in \mathbf{R} \text{ ili } a \in \mathbf{C}, \quad \frac{1}{p-a} \quad \circ\!\!-\!\!\bigcirc \quad e^{at} \cdot S(t)$$

$$\text{za } a \in \mathbf{R} \text{ ili } a \in \mathbf{C}, \quad \frac{1}{p+a} \quad \circ\!\!-\!\!\bigcirc \quad e^{-at} \cdot S(t)$$

$$\frac{\omega}{p^2+\omega^2} \quad \circ\!\!-\!\!\bigcirc \quad \sin(\omega t) \cdot S(t)$$

$$\frac{p}{p^2+\omega^2} \quad \circ\!\!-\!\!\bigcirc \quad \cos(\omega t) \cdot S(t)$$

$$\frac{\omega}{p^2-\omega^2} \quad \circ\!\!-\!\!\bigcirc \quad \operatorname{sh}(\omega t) \cdot S(t)$$

$$\frac{p}{p^2-\omega^2} \quad \circ\!\!-\!\!\bigcirc \quad \operatorname{ch}(\omega t) \cdot S(t)$$

$$\text{za } a \in \mathbf{R} \text{ ili } a \in \mathbf{C}, \quad \frac{1}{(p-a)^n} \quad \circ\!\!-\!\!\bigcirc \quad \frac{t^{n-1}}{(n-1)!} e^{at} \cdot S(t)$$

$$\text{za } a \in \mathbf{R} \text{ ili } a \in \mathbf{C}, \quad \frac{1}{(p+a)^n} \quad \circ\!\!-\!\!\bigcirc \quad \frac{t^{n-1}}{(n-1)!} e^{-at} \cdot S(t)$$

Ako je

$$F(p) \circ\!\!-\!\!\bigcirc f(t) \cdot S(t),$$

tada je:

$$e^{-ap}F(p) \quad \circ\!\!-\!\!\bigcirc \quad f(t-a) \cdot S(t-a), \qquad \text{za } a > 0$$

$$F(p+a) \quad \circ\!\!-\!\!\bigcirc \quad e^{-at} f(t) \cdot S(t), \qquad \text{za } a \in \mathbf{R} \text{ ili } a \in \mathbf{C}$$

$$F(p-a) \quad \circ\!\!-\!\!\bigcirc \quad e^{at} f(t) \cdot S(t), \qquad \text{za } a \in \mathbf{R} \text{ ili } a \in \mathbf{C}$$