Couple of theorems for use

Let $L[f(t)] = F(s)$

$\lim_{t \to \infty} f(t) = \lim_{s \to 0} s \times F(s)$..... Limit Theorem

$L[f(t/\tau)] = \tau \times F(s \cdot \tau)$

$L[\frac{f(t/\tau)}{\tau}] = F(s \cdot \tau)$.....scaling theorem