

12. Gyak.  
Laplace transzformált

Definíció szerint számítsa ki!

1.  $\mathcal{L}(u(t))(s) = ?$  ahol

$$u(t) = \begin{cases} 1 & , \text{ ha } x \geq 0 \\ 0 & , \text{ különben} \end{cases}$$

2.  $\mathcal{L}(\sin(\omega t))(s) = ?$

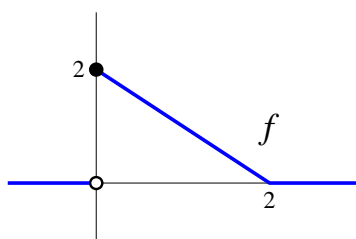
3.  $\mathcal{L}(e^{kt})(s) = ?$

4.  $\mathcal{L}(\cosh \omega t)(s) = ?$

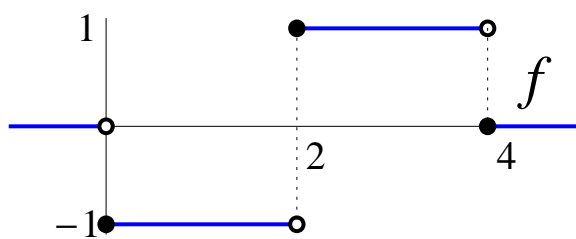
5.  $\mathcal{L}(t)(s) = ?$

6.  $\mathcal{L}(t^2)(s) = ?$

7.  $\mathcal{L}(f(t))(s) = ?$  ahol



(a)



(b)