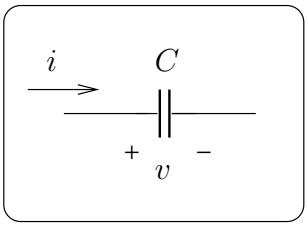
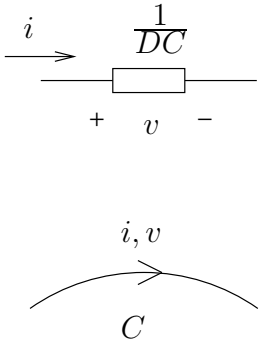
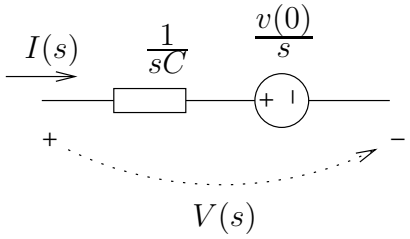
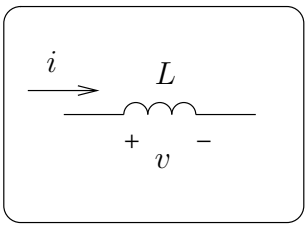
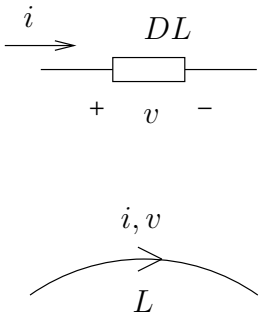
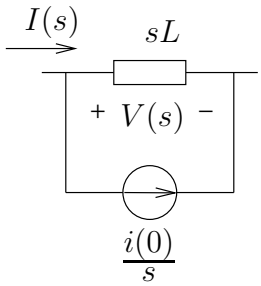
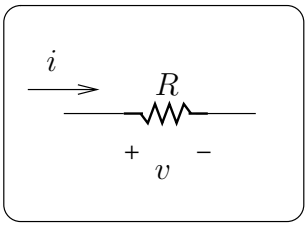
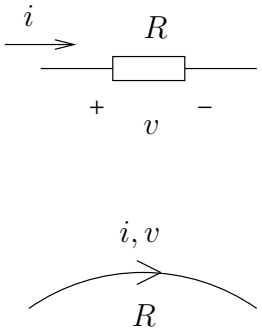
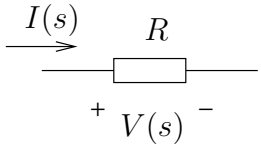
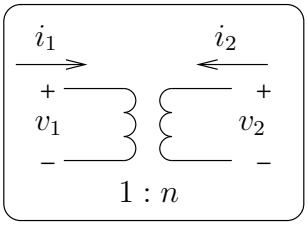
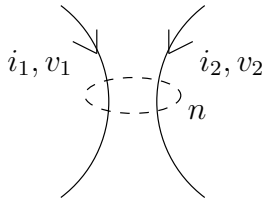
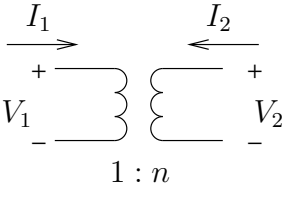
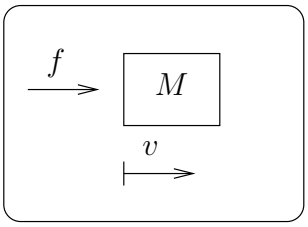
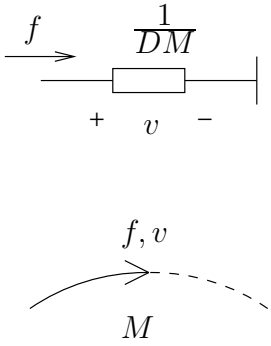
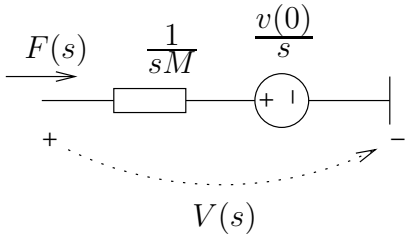
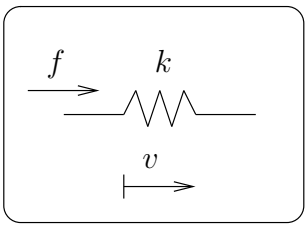
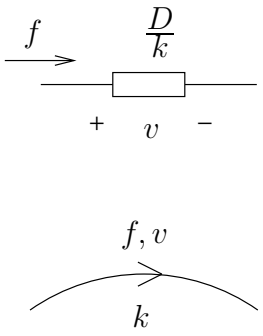
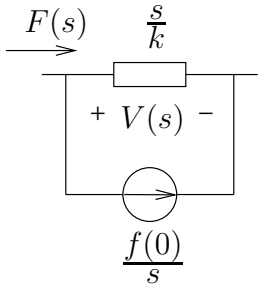
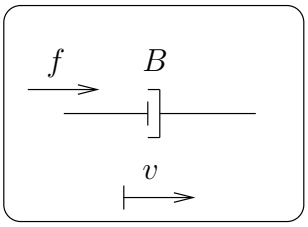
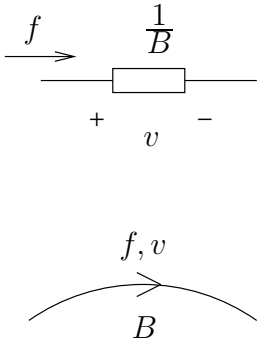
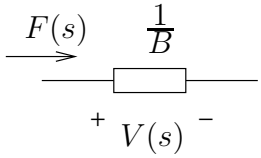
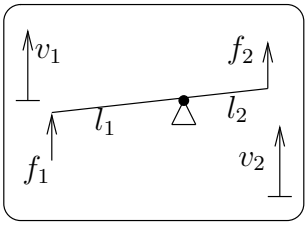
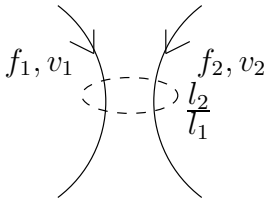
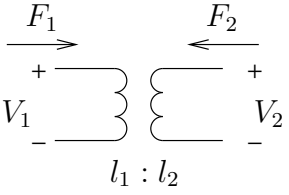
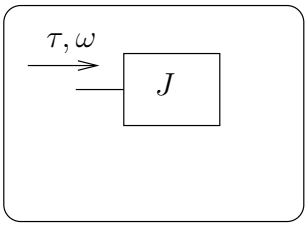
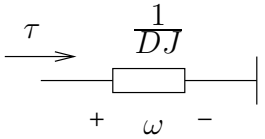
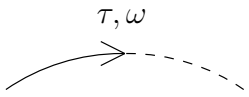
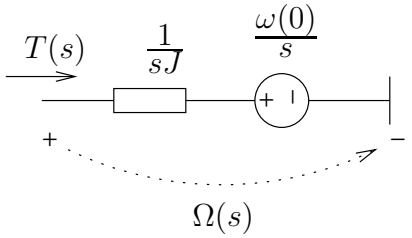
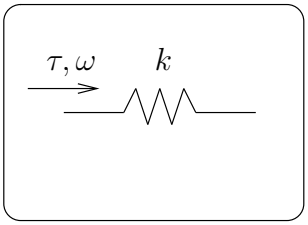
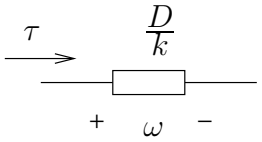
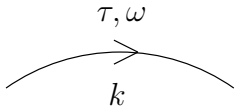
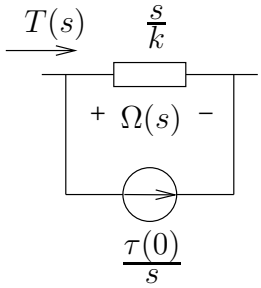
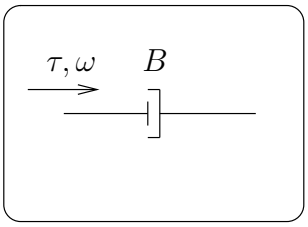
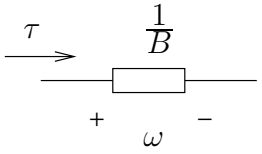
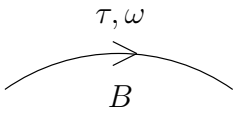
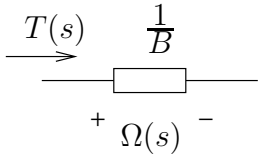
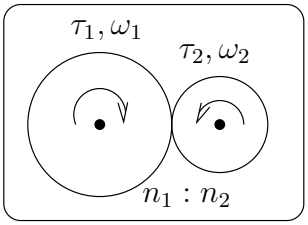
TIME DOMAIN	LAPLACE DOMAIN
 $i = C\frac{dv}{dt}$ $v(t) = \frac{1}{C}\int_0^t i(\tau)d\tau + v(0)$		
 $v = L\frac{di}{dt}$ $i(t) = \frac{1}{L}\int_0^t v(\tau)d\tau + i(0)$		
 $v = iR$		
 $\frac{v_2}{v_1} = \frac{i_1}{i_2} = n$		

TIME DOMAIN	LAPLACE DOMAIN
 $f = M\frac{dv}{dt}$ $v(t) = \frac{1}{M}\int_0^t f(\tau)d\tau + v(0)$		
 $kv = \frac{df}{dt}$ $f(t) = k\int_0^t v(\tau)d\tau + f(0)$		
 $v = \frac{f}{B}$		
 $\frac{v_2}{v_1} = \frac{f_1}{f_2} = \frac{l_2}{l_1}$		

TIME DOMAIN	LAPLACE DOMAIN
 $\tau = J\frac{d\omega}{dt}$ $\omega(t) = \frac{1}{J}\int_0^t \tau(x)dx + \omega(0)$	 	
 $k\omega = \frac{d\tau}{dt}$ $\tau(t) = k\int_0^t \omega(x)dx + \tau(0)$	 	
 $\omega = \frac{\tau}{B}$	 	
 $\frac{\omega_2}{\omega_1} = \frac{\tau_1}{\tau_2} = \frac{n_1}{n_2}$