Formuleblad tentamen NET(W)4

Relaties weerstand, Condensator en Spoel:

Relations Resistor, Capacitor and Inductor:

Relatie:	Weerstand / Resistor	Condensator / Capacitor	Spoel / Inductance
Spanning / Voltage	$u(t) = i(t) \cdot R$	$u(t) = \frac{1}{C}\int i(t)dt$	$u(t) = L \cdot \frac{di(t)}{dt}$
Stroom / Current	$i(t) = \frac{u(t)}{R}$	$i(t) = C \cdot \frac{du(t)}{dt}$	$i(t) = \frac{1}{L}\int u(t)dt$
Vermogen / Power	$p(t) = u(t) \cdot i(t)$	$p(t) = u(t) \cdot i(t)$	$p(t) = u(t) \cdot i(t)$
Energieopslag / Energystorage	-	$W(t) = \frac{1}{2}Cu^2(t)$	$W(t) = \frac{1}{2}Lu^2(t)$
Functie:	Afgeleide:		
$\frac{d}{dt}sin(\omega t)$	$\omega \cdot \cos(\omega t)$		
$\frac{d}{dt}cos(\omega t)$	$\omega \cdot (-sin(\omega t))$		