Electrical Units (	Guide for Simple F	Resistive (	Circuits

	Gianna			
Name	Derivative	Integral	Algebraic	Units

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Current	$i(t) = \frac{dq(t)}{dt}$	$q(t) = \int i(t)dt$	$I = \frac{Q}{T}$	$Ampere = \frac{Coulomb}{Second}$

Resistance

Voltage

Constant

 $V(t) = \frac{dW(t)}{dq}$ 

Current 
$$i(t) = \frac{aq(t)}{dt}$$
  $q(t) = \int i(t)dt$   $I = \frac{Q}{T}$  Ampere  $= \frac{Coulomb}{Second}$ 

Power 
$$P(t) = \frac{dW(t)}{dt}$$
  $W(t) = \int V(t)dt$   $P = IV$  Power = Current × Voltage

Constant

 $W(t) = \int V(t)dq$ 

 $R = \frac{V}{I}$ 

 $V = \frac{W}{O}$ 

 $Ohm = \frac{Voltage}{Current}$