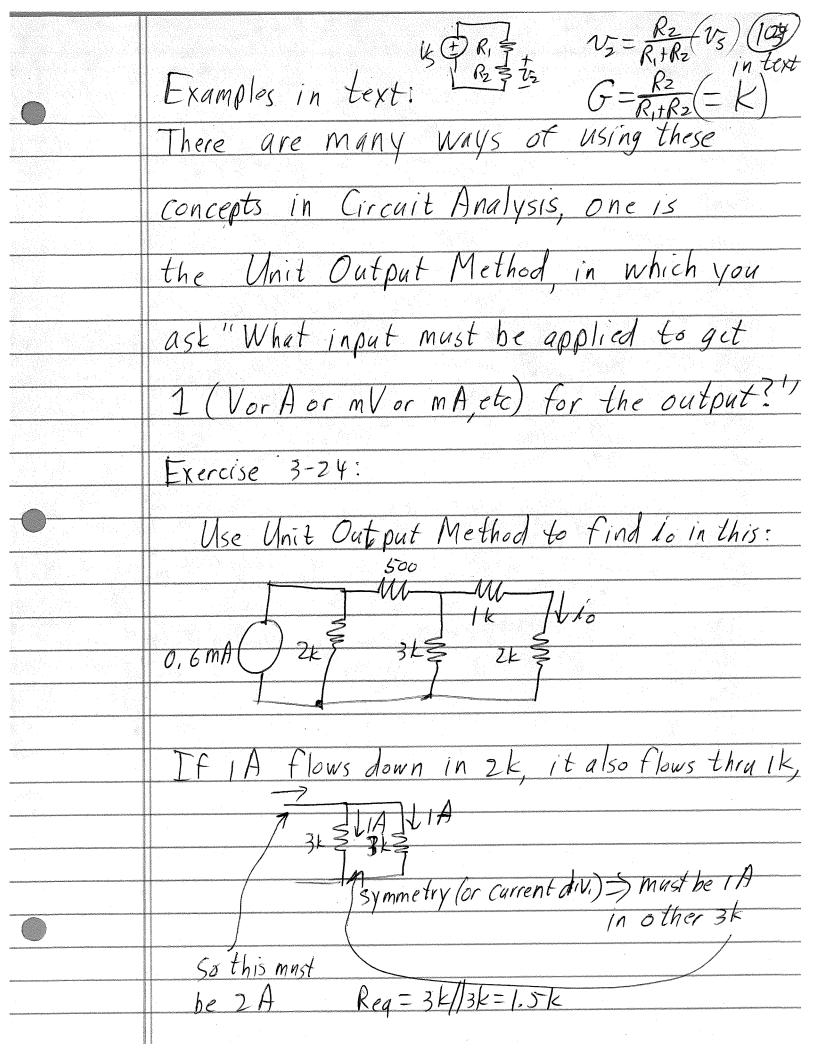
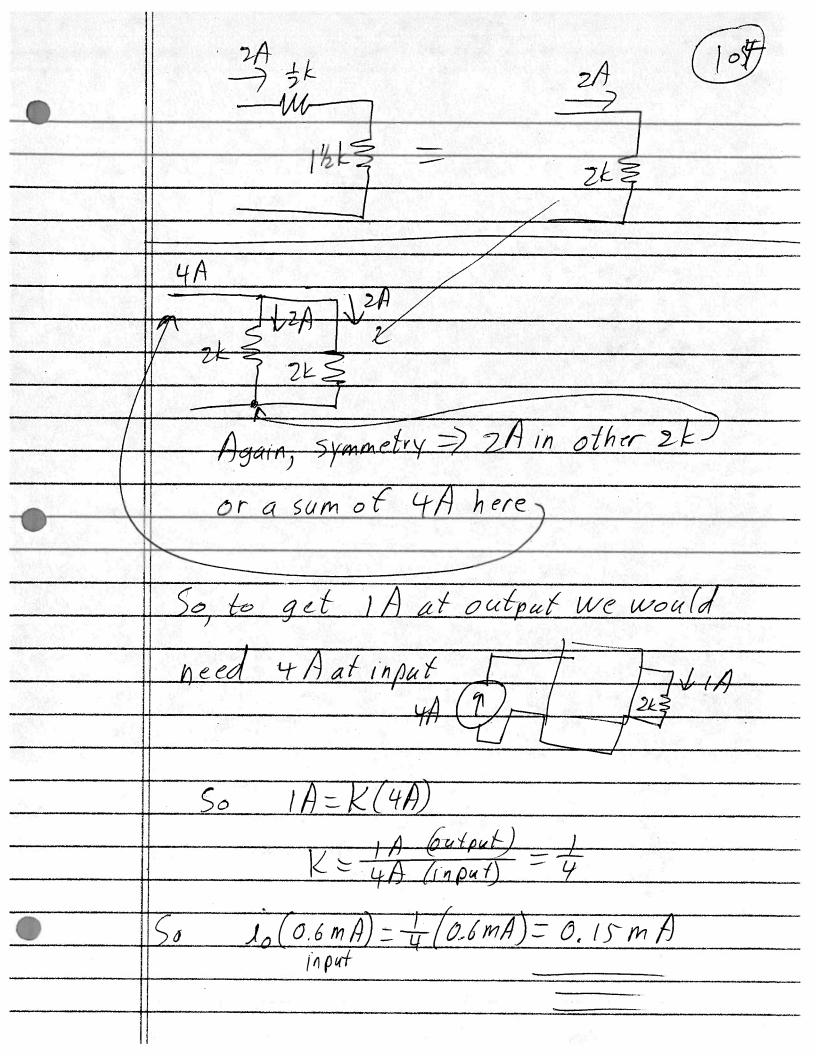
inearity Linear- has inputs that produce outputs. Output is Proportional to Input Out = (F) Input (Homogeneity)

GX or Proportionality (Kx) = Kf(x)Also Output (Sum of Inpuls) = Sum of Outputs
due to each $f(\gamma, + \gamma_2) = f(\gamma_1) + f(\gamma_2)$ Additivity Superposition) Proportionality only applies to currents and voltages, NOT TO POWER which is non-linear





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This is usually useful in highly symmetric

and relatively simple ckts.

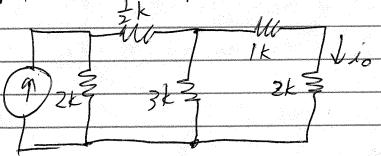
You can also use a "Unit Input Method"

not in text, that goes "If a unit input

is applied, what will the output be? "then

K = Output

Apply to same problem:

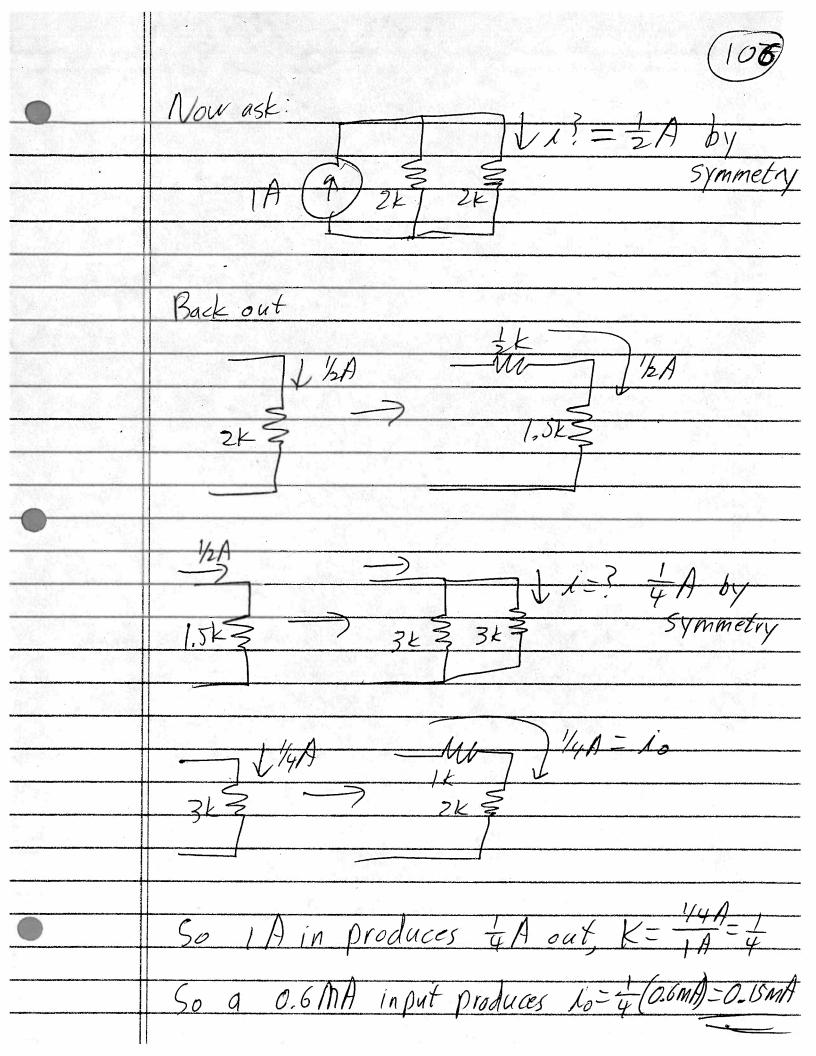


Go to far side + reduce:

1k+2k=3k

3K//3K=1.5K

1.5k+0.5k=2k





	(A)
	Additivity (Superposition)
	$2\sqrt{(N+N+N+1)} - \sqrt{N+1} + \sqrt{N+1}$
	$\mathcal{Y}(\chi, *\chi_2 * \chi_3 * \cdots) = K_1 \chi_1 + K_2 \chi_2 + \cdots$
	Out out due to many = Sum of outputs due to
	Output due to many = Sum of outputs due to inputs each source with all
	other sources turned
	off,
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