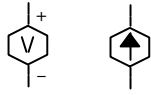


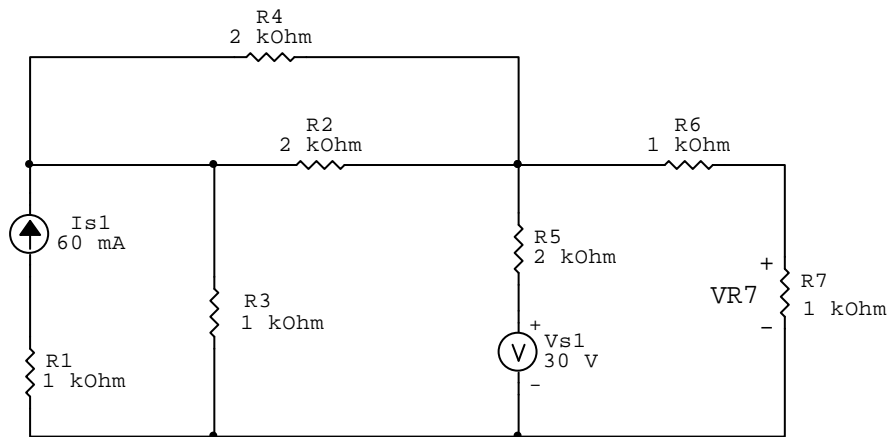
Lista de Exercício VI (atualizado em 26/10/2017)



Fontes dependentes de tensão e corrente respectivamente.

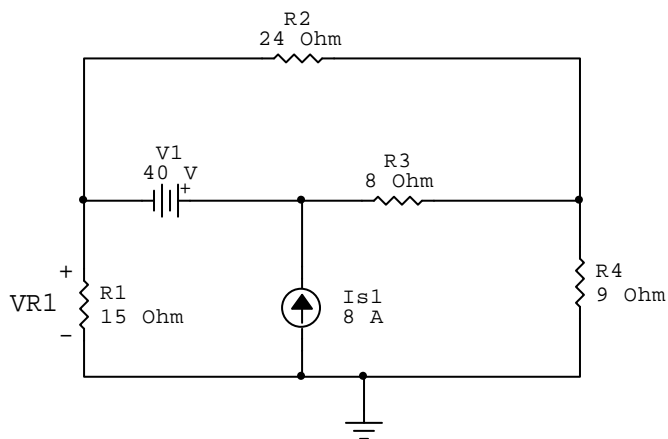
1) Circuitos cc - Utilize o teorema da superposição para obter as variáveis solicitadas.

Circuito 1.1) Determine a tensão VR7.



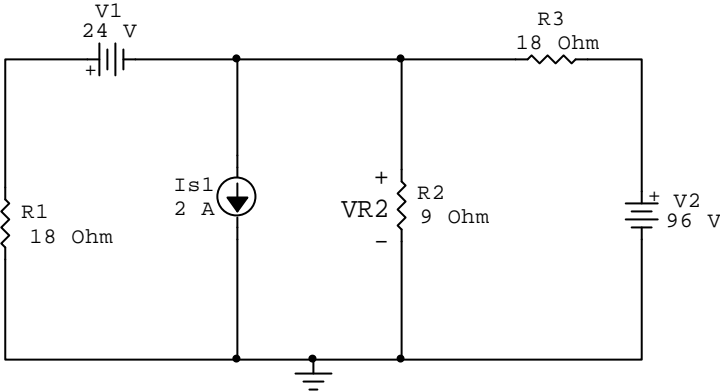
circ superposição cc 01

Circuito 1.2) Determine a tensão VR1.



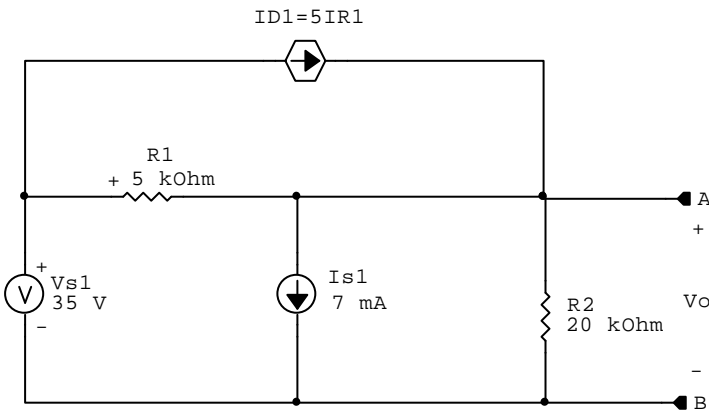
circ superposição cc 02

Circuito 1.3) Determine a tensão VR2.



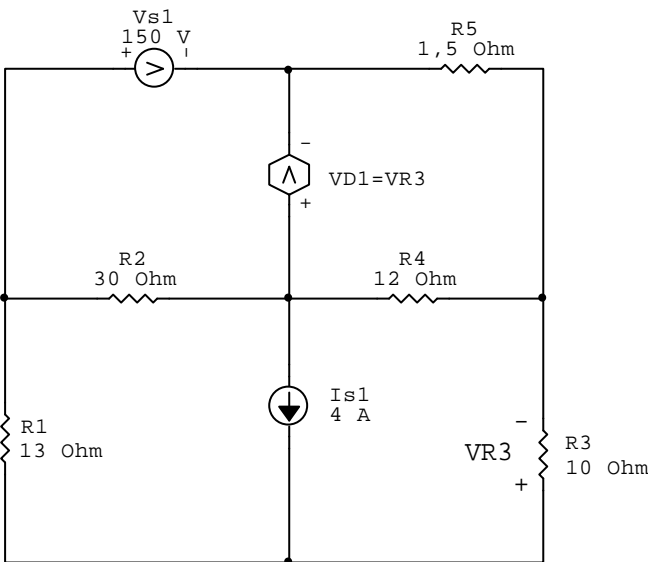
circ superposição cc 03

Circuito 1.4) Determine a tensão Vo.



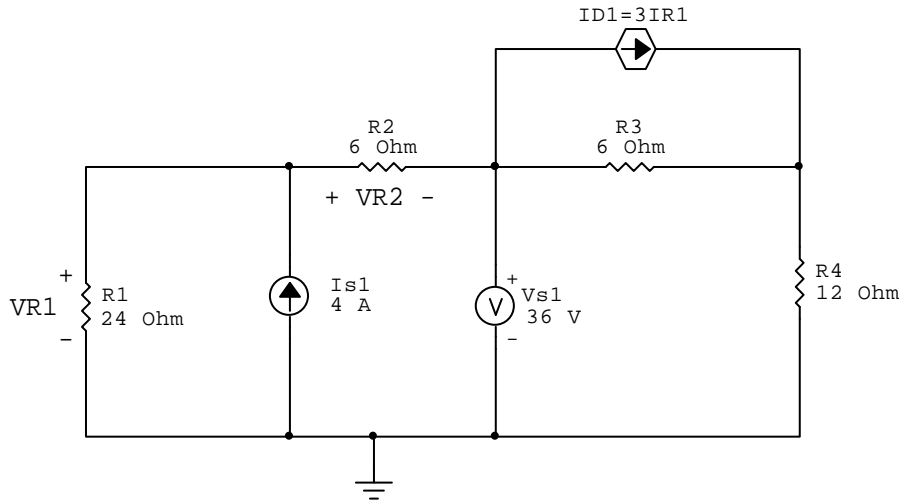
circ superposição cc fd 01

Circuito 1.5) Determine a tensão VR3.



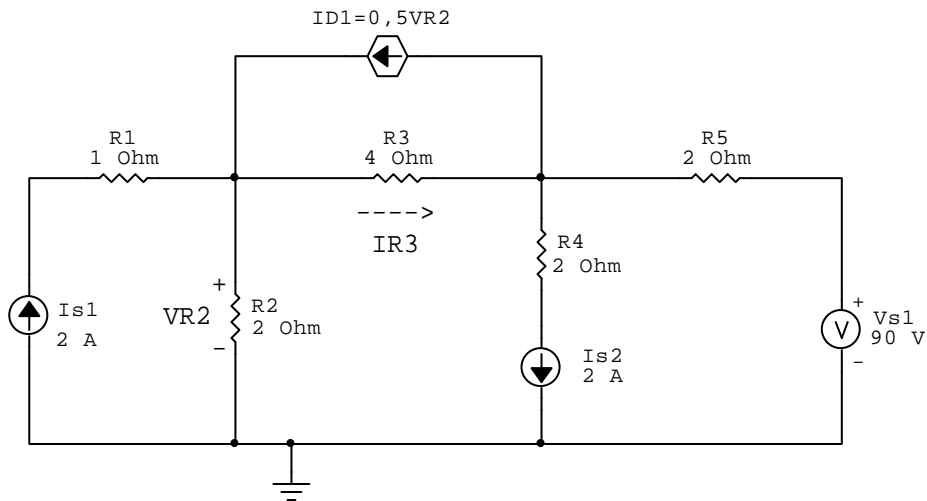
circ superposição cc fd 02

Circuito 1.6) Determine a tensão VR2.



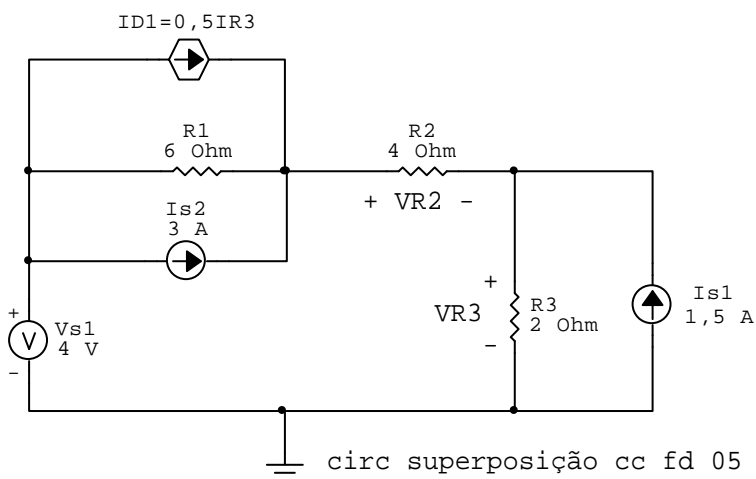
circ superposição cc fd 03

Circuito 1.7) Determine a tensão IR3.



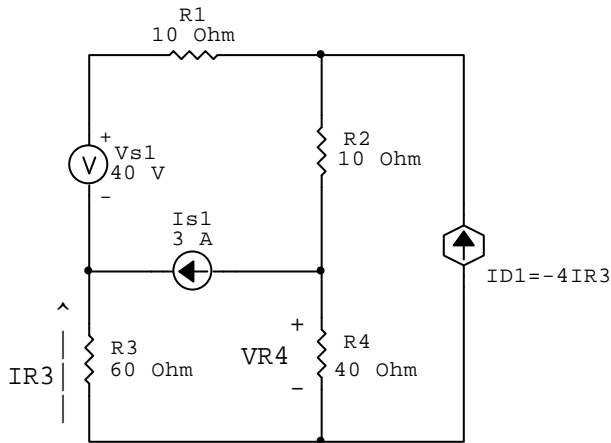
circ superposição cc fd 04

Circuito 1.8) Determine a tensão VR2.



circ superposição cc fd 05

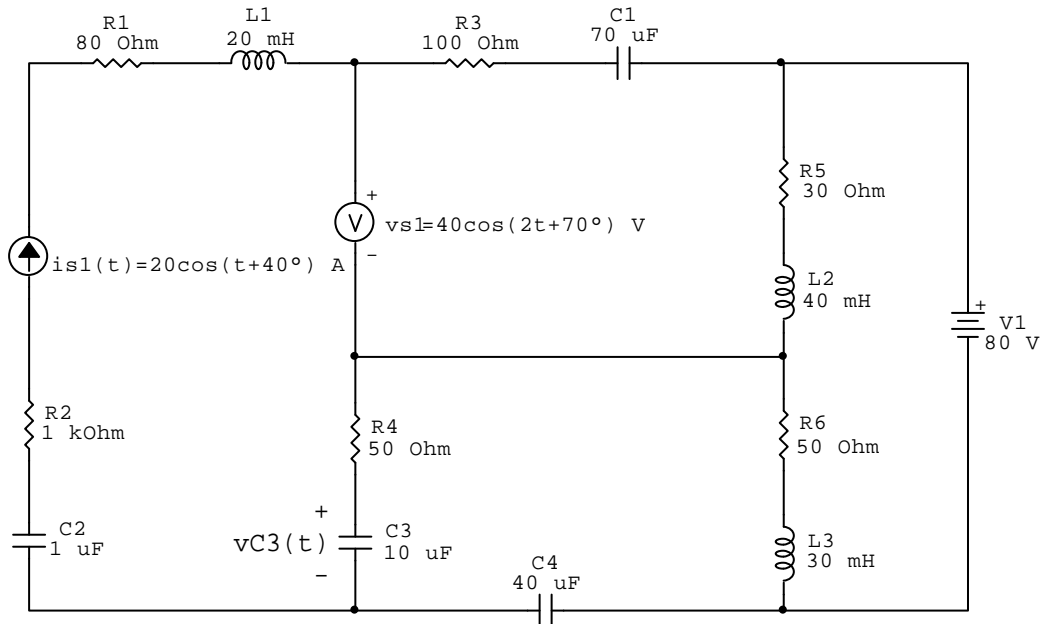
Circuito 1.9) Determine a tensão VR4.



circ superposição cc fd 06

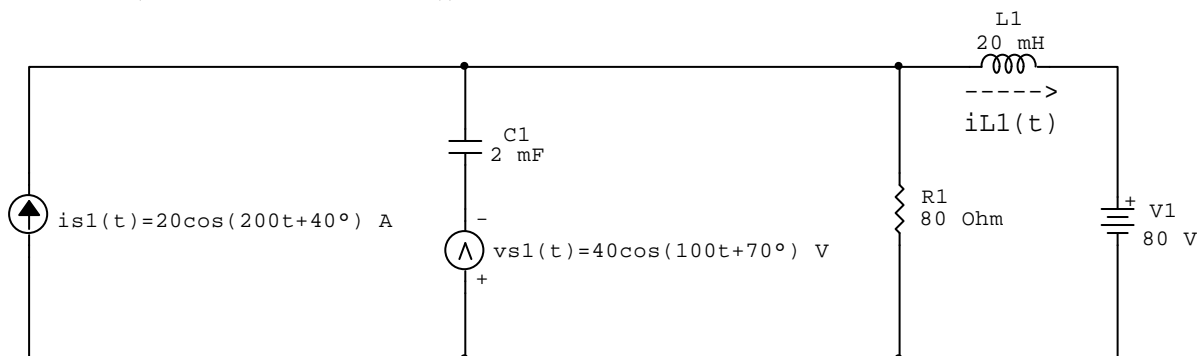
2) Cicuitos ca - Utilize o teorema da superposição para obter as variáveis desejadas.

Circuito 2.1) Determine a tensão vC3(t).



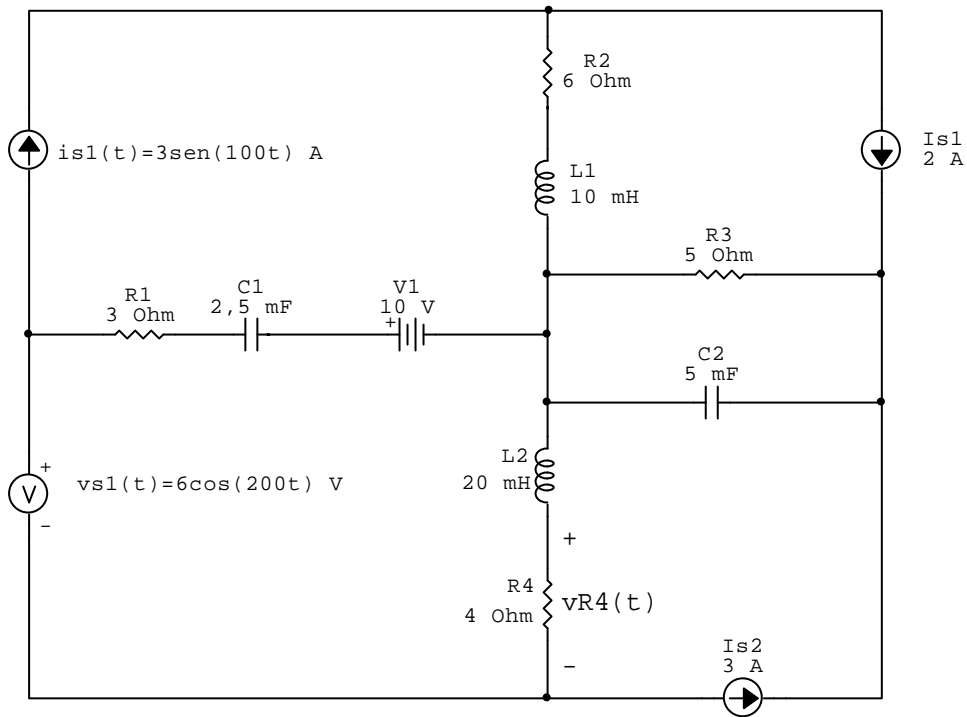
circ superposição ca dom t 01

Circuito 2.2) Determine a tensão iL1(t).



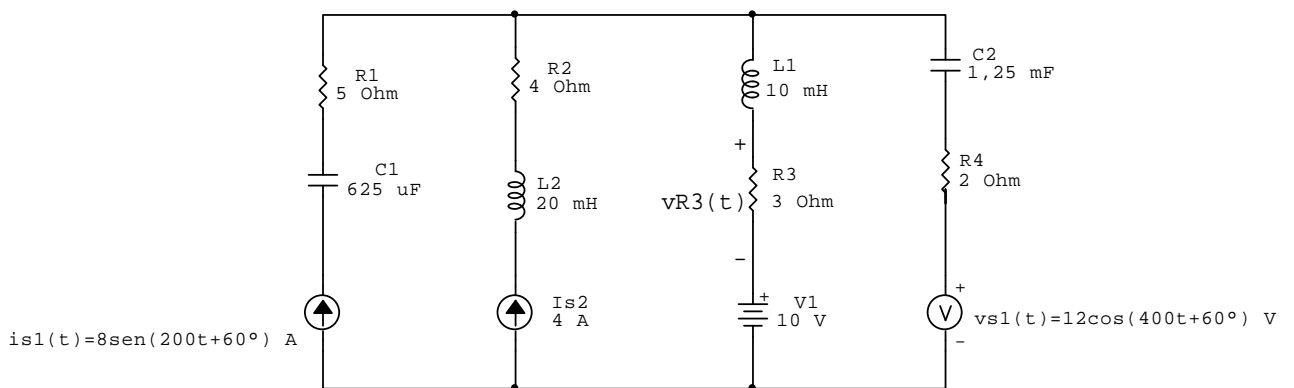
circ superposição ca dom t 02

Circuito 2.3) Determine a tensão  $v_{R4}(t)$ .



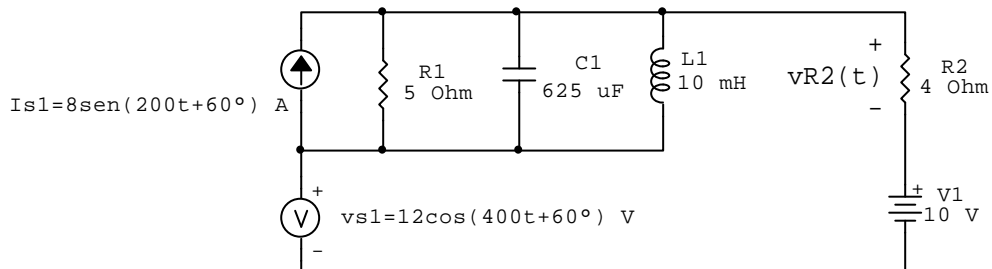
circ superposição ca dom t 03

Circuito 2.4) Determine a tensão  $v_{R3}(t)$ .



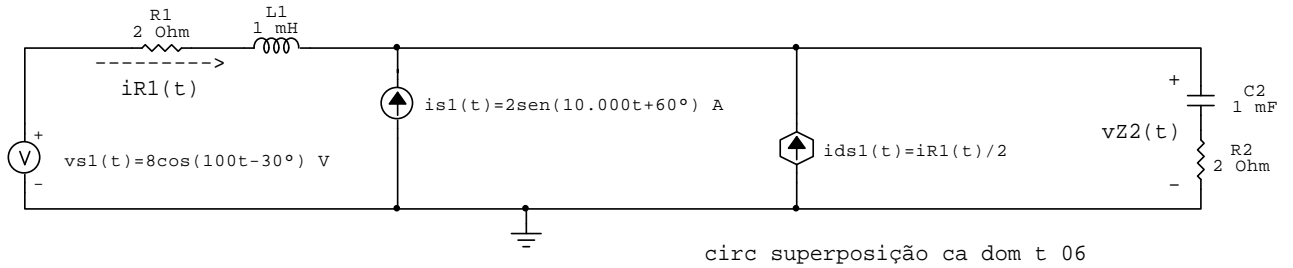
circ superposição ca dom t 04

Circuito 2.5) Determine a tensão  $v_{R2}(t)$ .

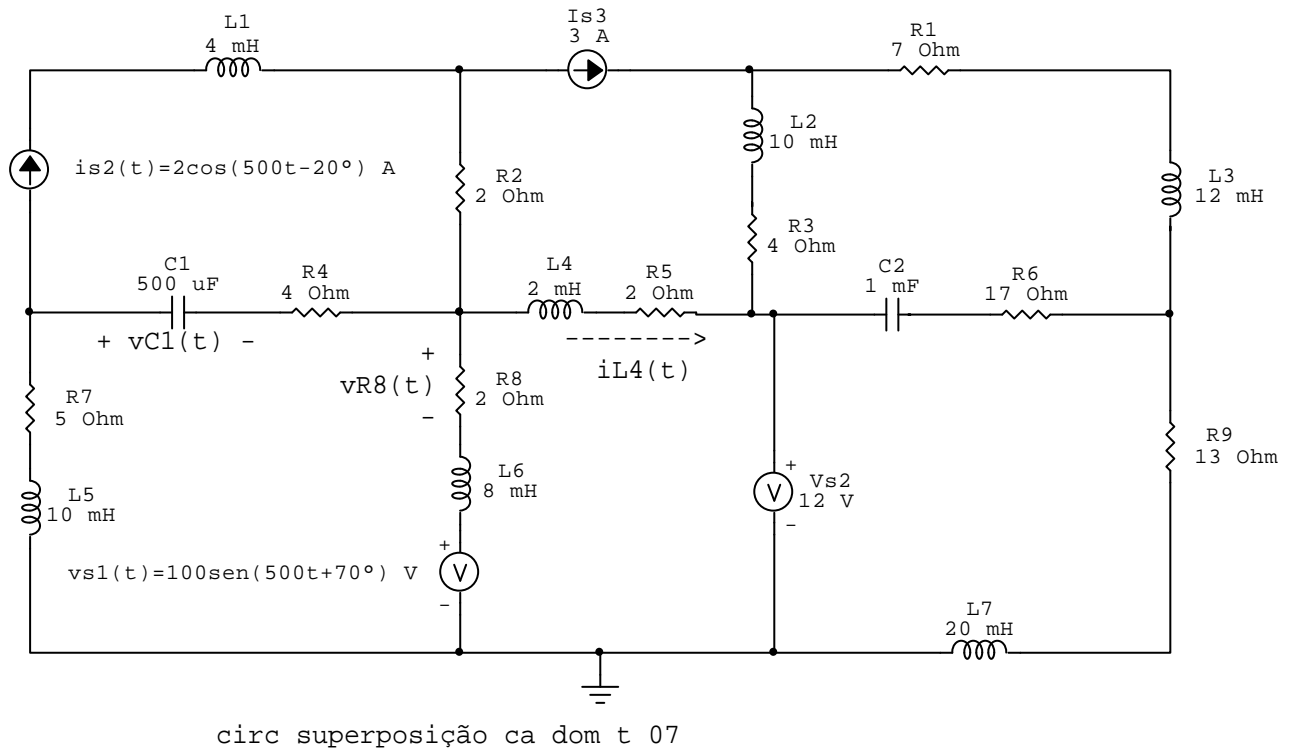


circ superposição ca dom t 05

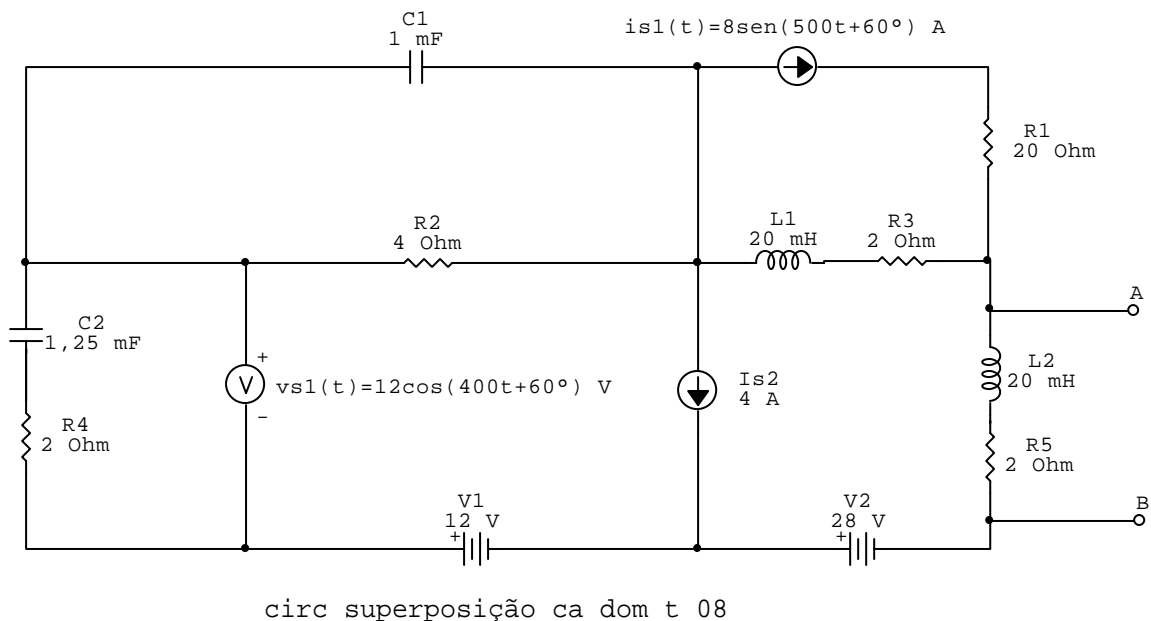
Circuito 2.6) Determine a tensão  $vZ2(t)$ .



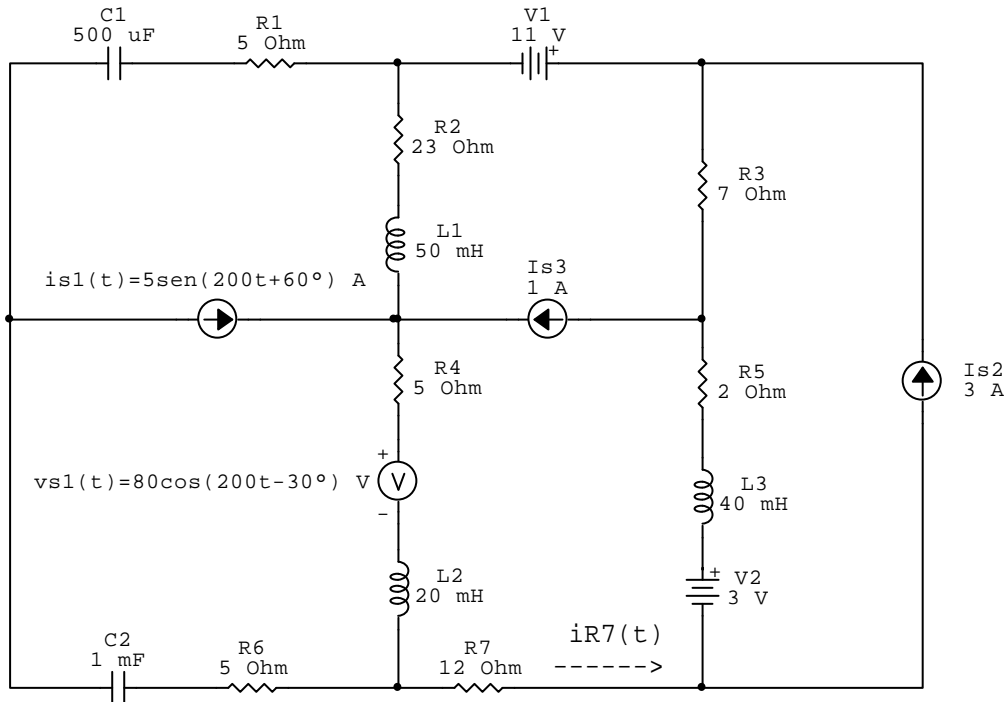
Circuito 2.7) Determine a tensão  $vC1(t)$ ,  $vR8(t)$  e  $iL4(t)$ .



Circuito 2.8) Determine a tensão  $vAB(t)$ .

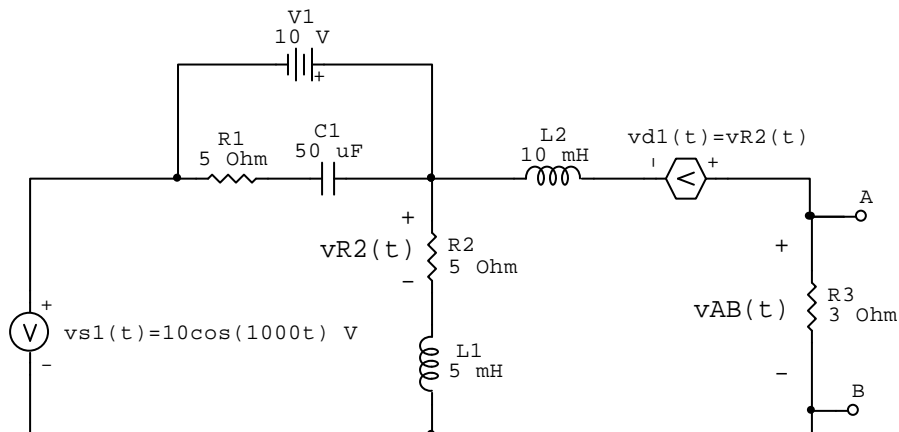


Circuito 2.9) Determine a tensão  $iR7(t)$ .



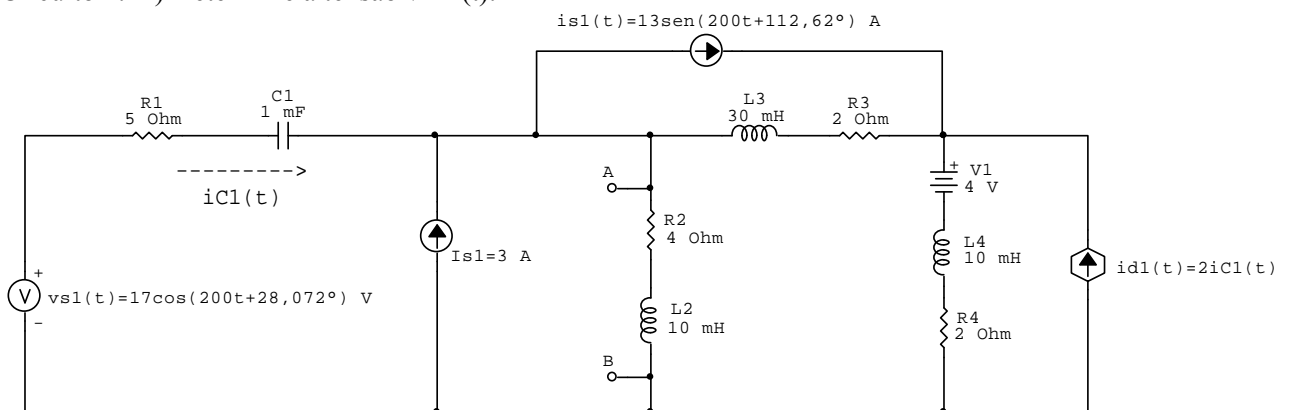
circ superposição ca dom t 09

Circuito 2.10) Determine a tensão  $vAB(t)$ .



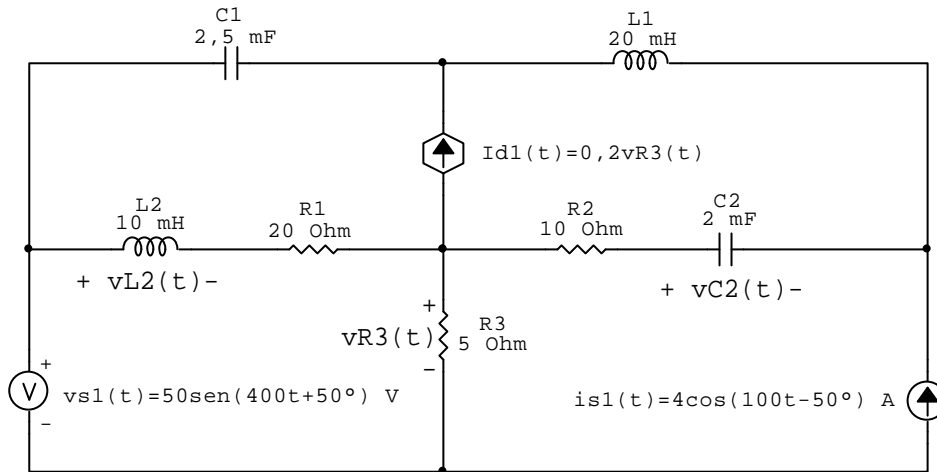
circ superposição ca dom t fd 01

Circuito 2.11) Determine a tensão  $vAB(t)$ .



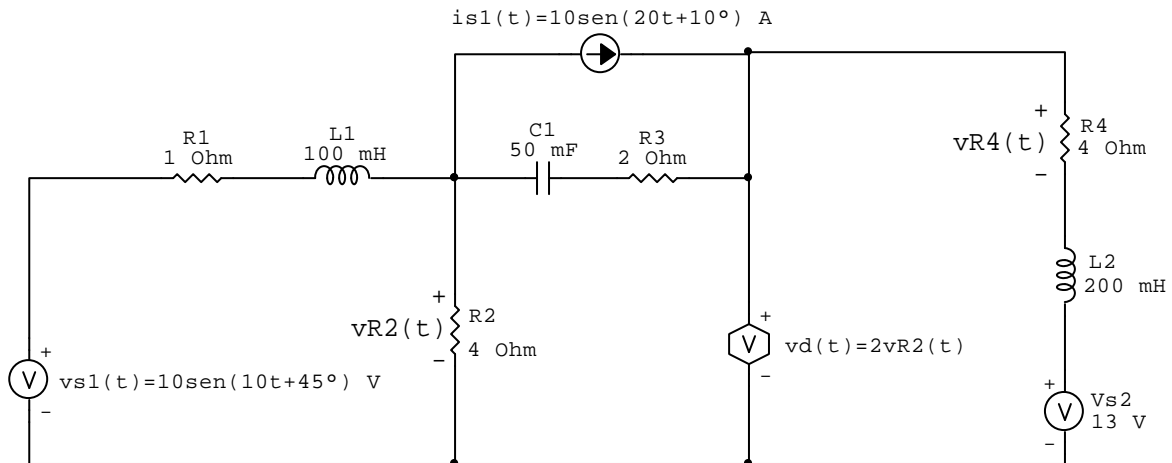
circ superposição ca dom t fd 02

Circuito 2.12) Determine a tensão  $vR3(t)$ .



circ superposição ca dom t fd 03

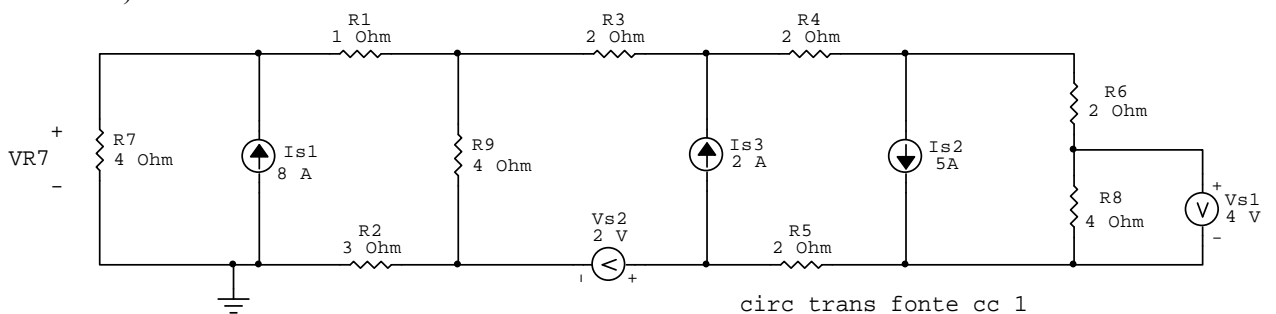
Circuito 2.13) Determine a tensão  $vR4(t)$ .



circ superposição ca dom t fd 04

3) Cicuitos cc - Utilize o teorema da transformação de fonte para obter as variáveis desejadas)

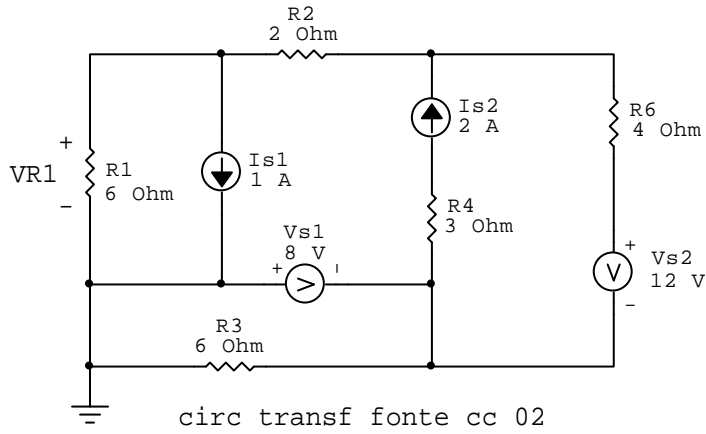
Circuito 3.1) Determine a tensão  $VR7$ .



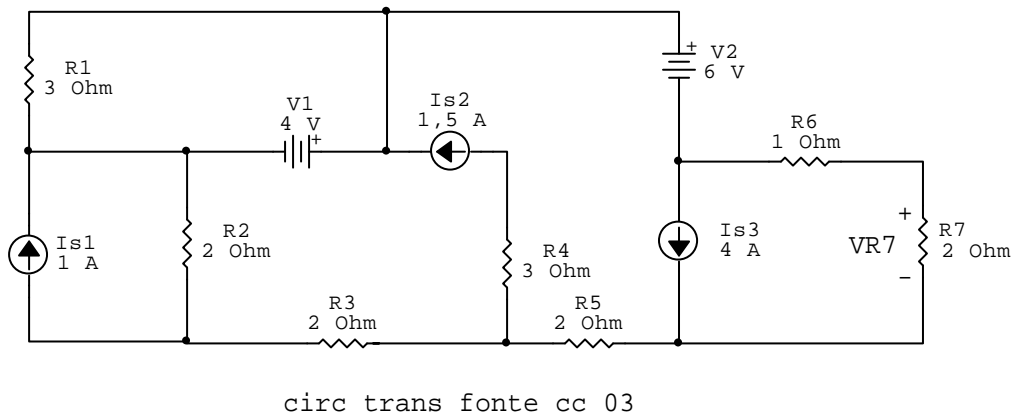
circ trans fonte cc 1



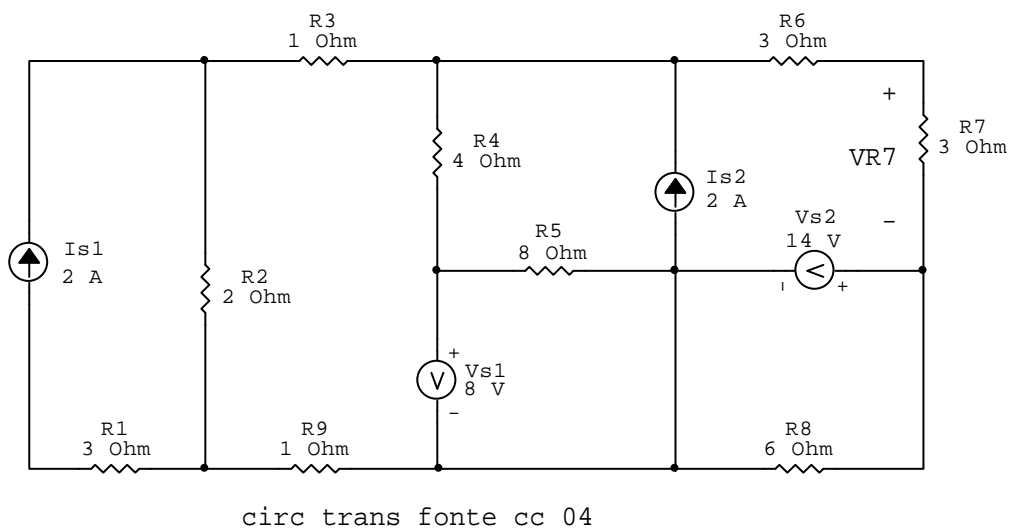
Circuito 3.2) Determine a tensão VR1.



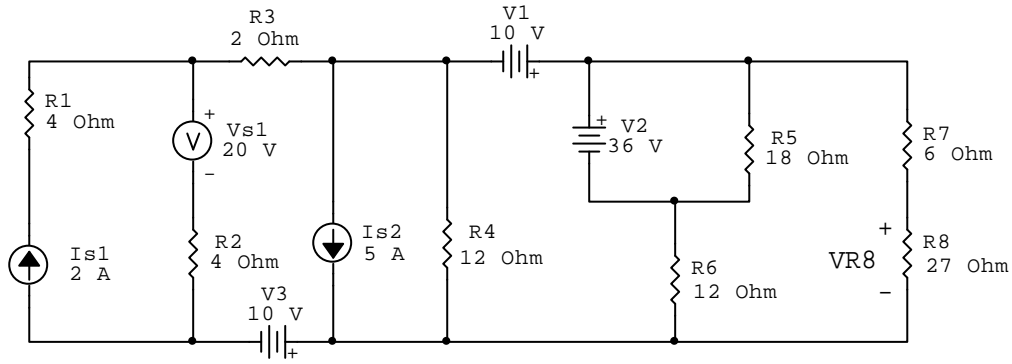
Circuito 3.3) Determine a tensão VR7.



Circuito 3.4) Determine a tensão VR7.

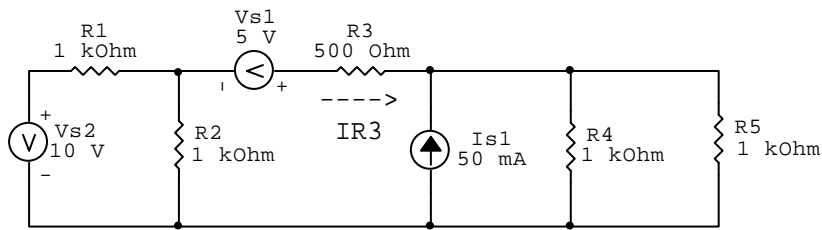


Circuito 3.5) Determine a tensão VR8.



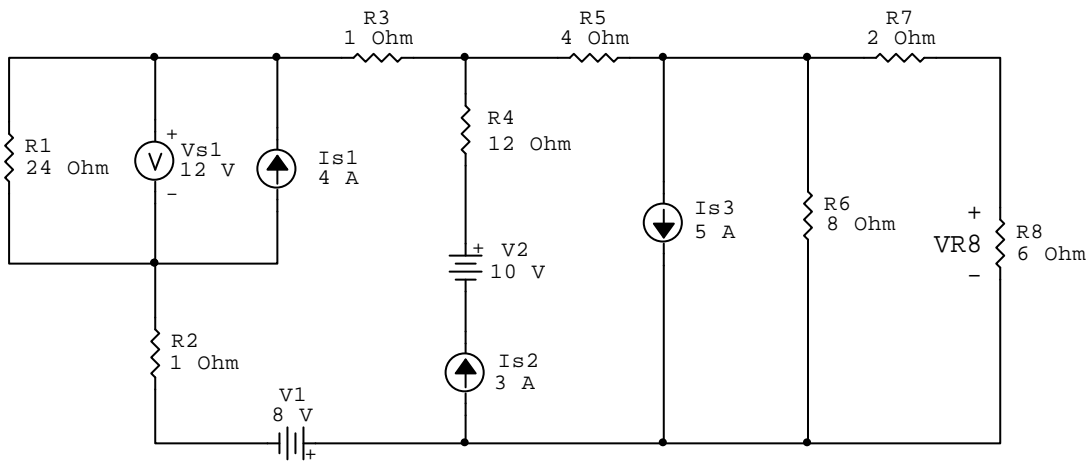
circ trans fonte cc 05

Circuito 3.6) Determine a corrente IR3.



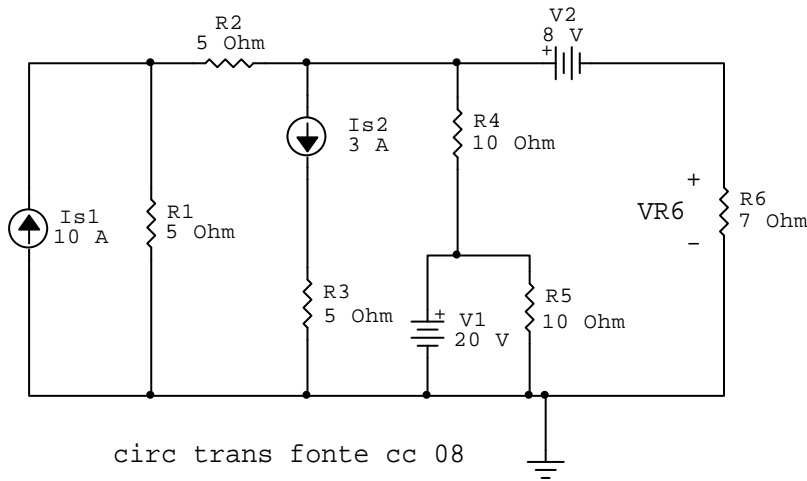
circ trans fonte cc 06

Circuito 3.7) Determine a tensão VR8.

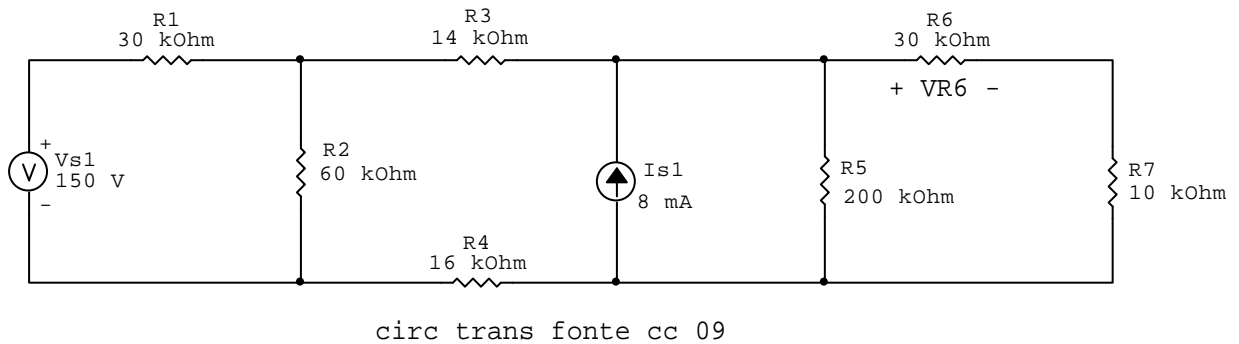


circ trans fonte cc 07

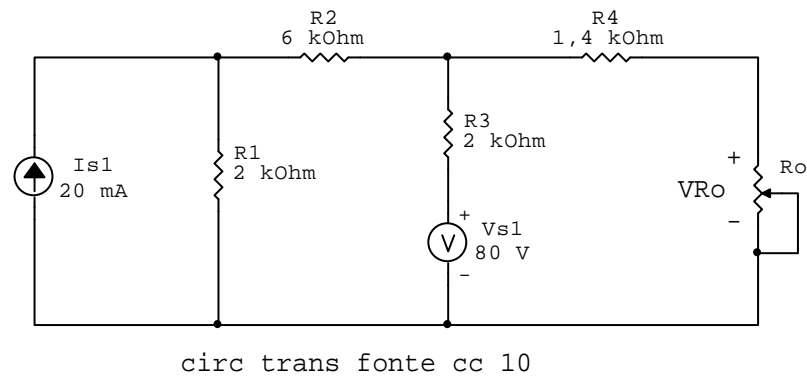
Circuito 3.8) Determine a tensão VR6.



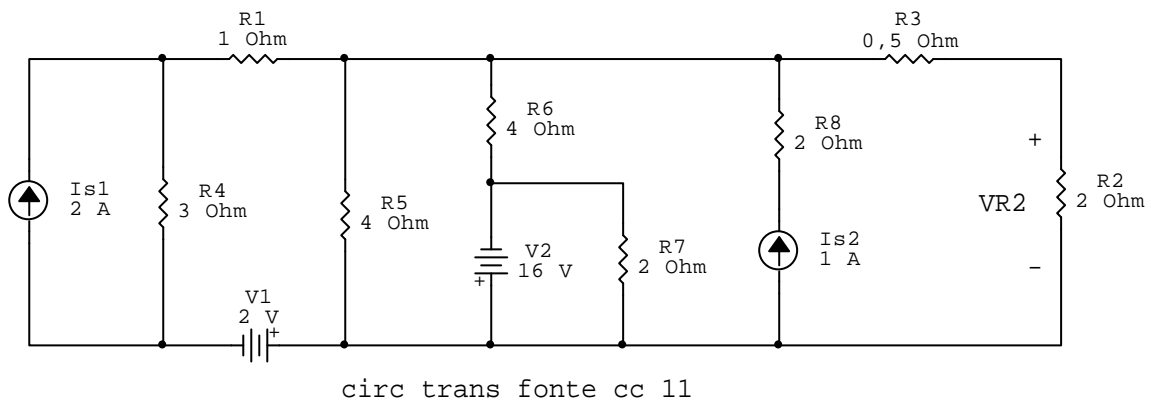
Circuito 3.9) Determine a tensão VR6.



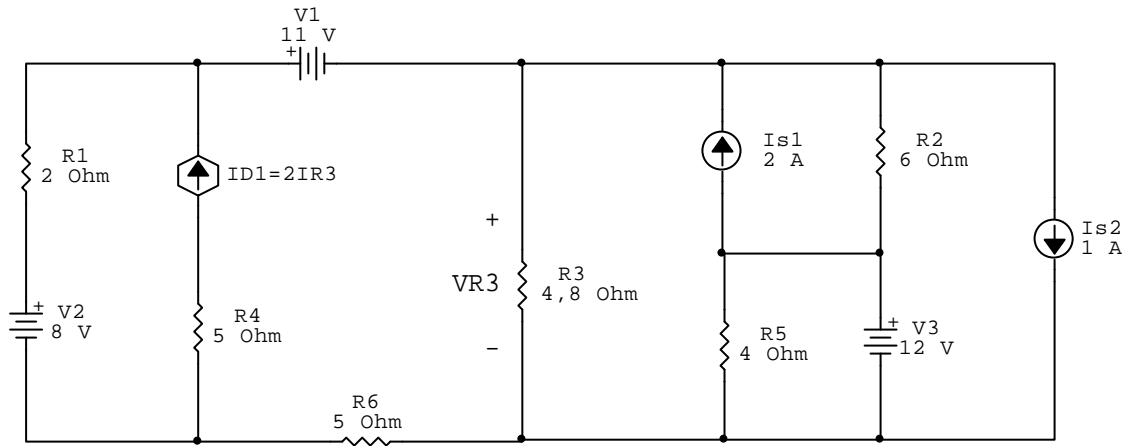
Circuito 3.10) Determine a tensão VRo.



Circuito 3.11) Determine a tensão VR2.



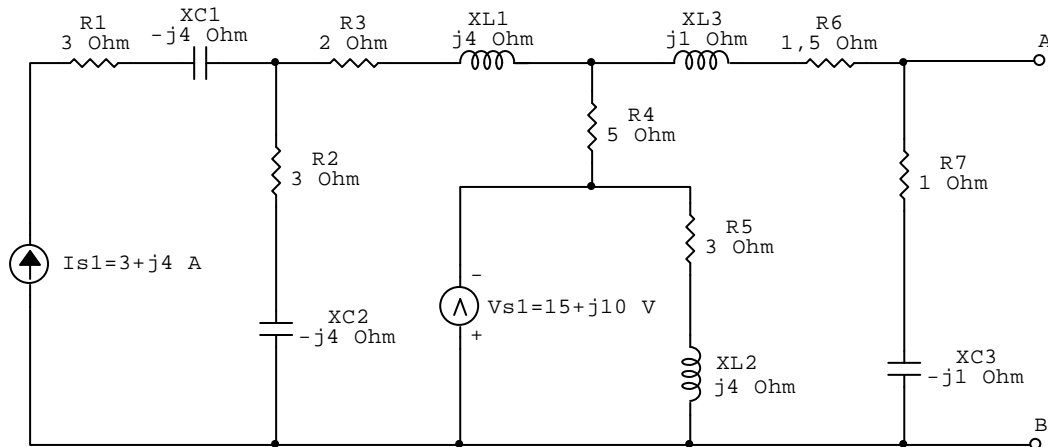
Circuito 3.12) Determine a tensão VR3.



circ trans fonte cc fd 01

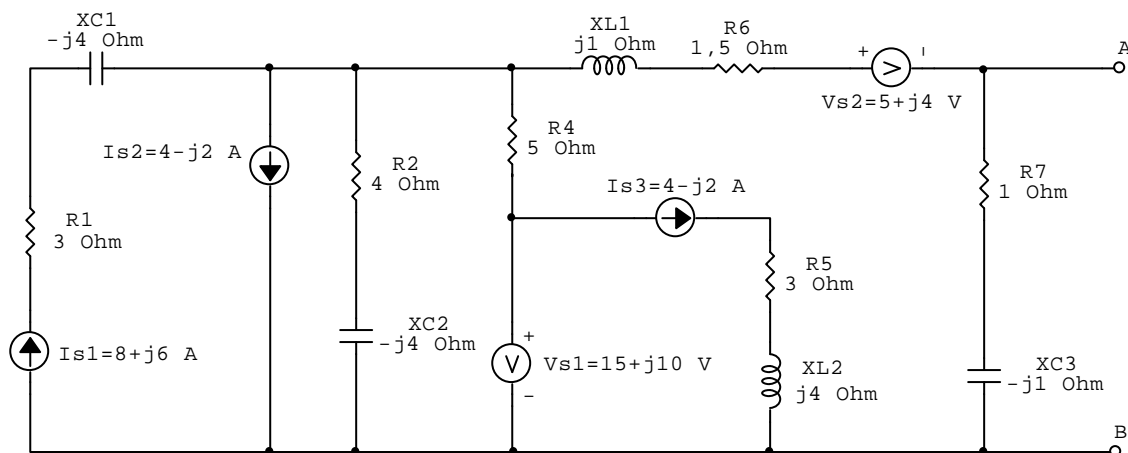
4) Cicuitos ca - Utilize o teorema da transformação de fonte para obter as variáveis desejadas.

Circuito 4.1) Determine a tensão  $V_{AB}$ .



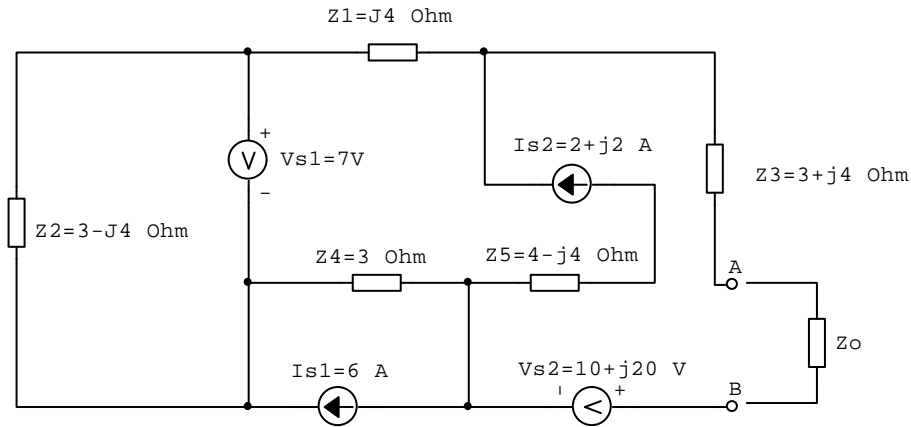
circ trans fonte ca dom freq 01

Circuito 4.2) Determine a tensão  $V_{AB}$ .



circ trans fonte ca dom freq 02

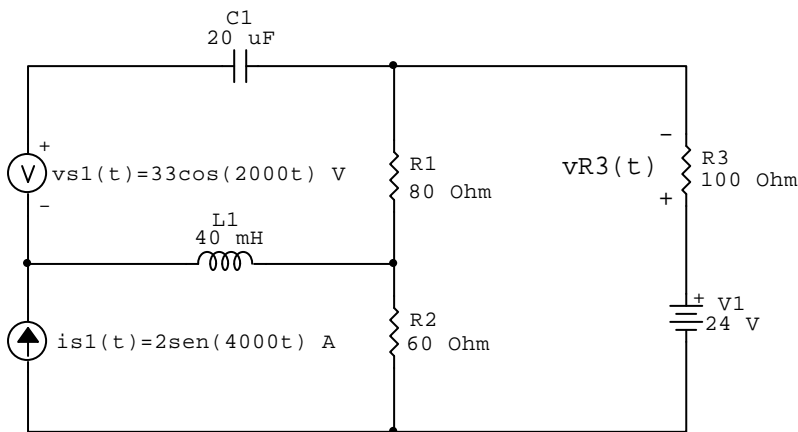
Circuito 4.3) Determine a tensão  $V_{AB}$ .



circ trans fonte ca dom freq 03

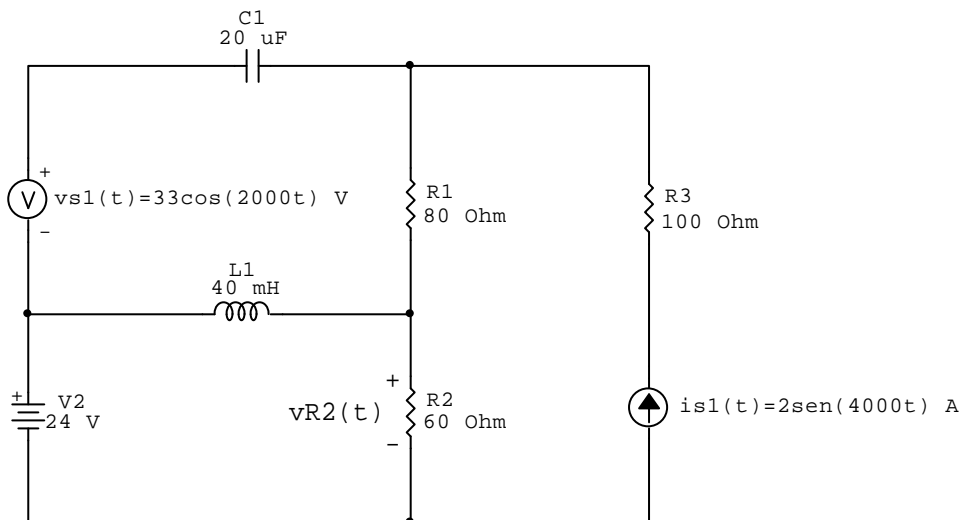
5) Cicuitos ca - Utilize o teorema de superposição e da transformação de fonte para obter as variáveis desejadas.

Circuito 5.1) Determine a tensão  $v_{R3}(t)$ .



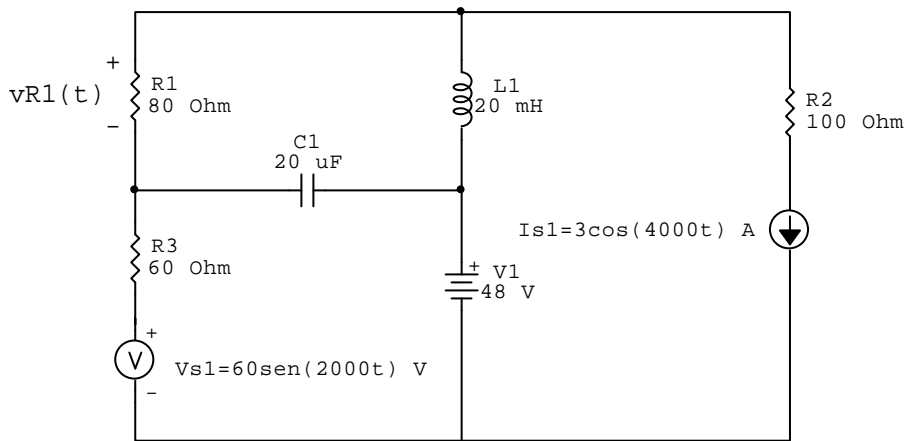
circ superposição ca dom t por transf de fonte 01

Circuito 5.2) Determine a tensão  $v_{R2}(t)$ .



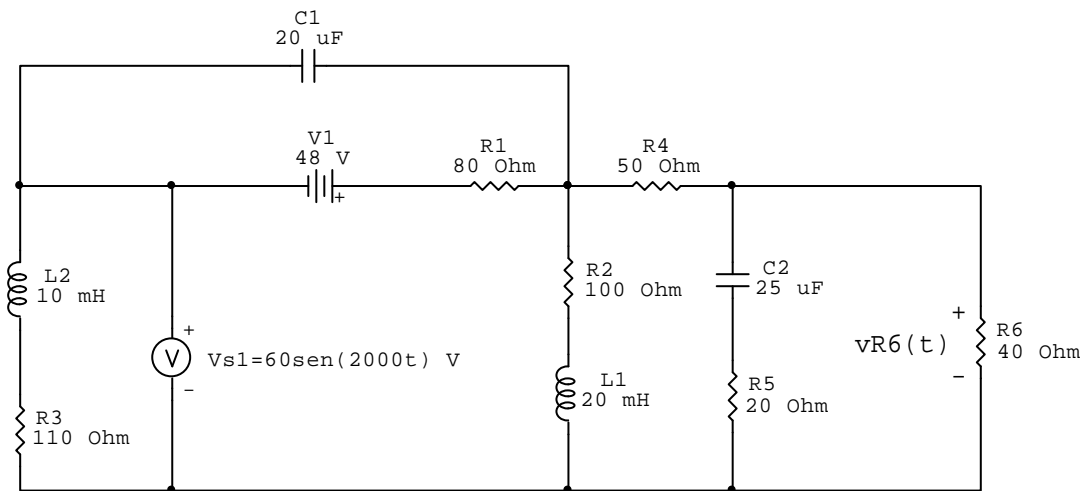
circ superposição ca dom t por transf de fonte 02

Circuito 5.3) Determine a tensão  $v_{R1}(t)$ .



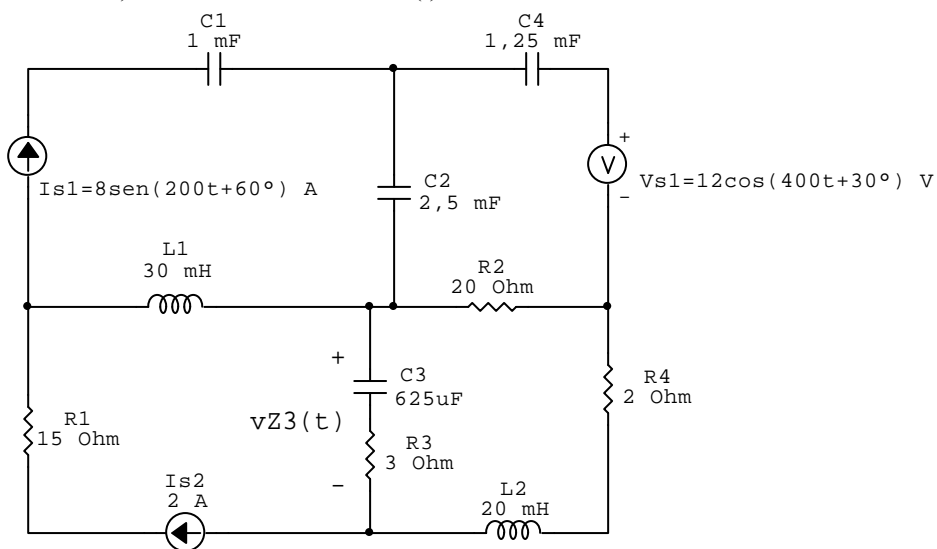
circ superposição ca dom t por transf de fonte 03

Circuito 5.4) Determine a tensão  $v_{R6}(t)$ .



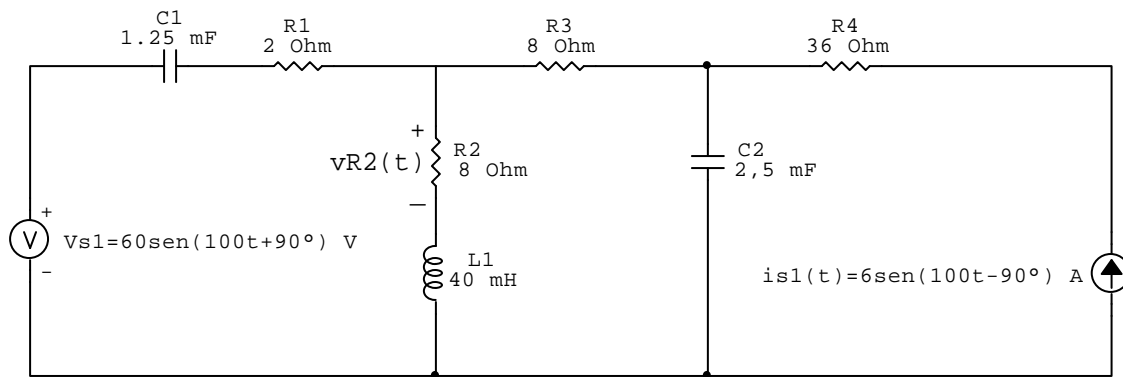
circ superposição ca dom t por transf de fonte 04

Circuito 5.5) Determine a tensão  $v_{AB}(t)$ .



circ superposição ca dom t por transf de fonte 05

Circuito 5.6) Determine a tensão  $v_{R2}(t)$ .



circ superposição ca dom t por transf de fonte 06