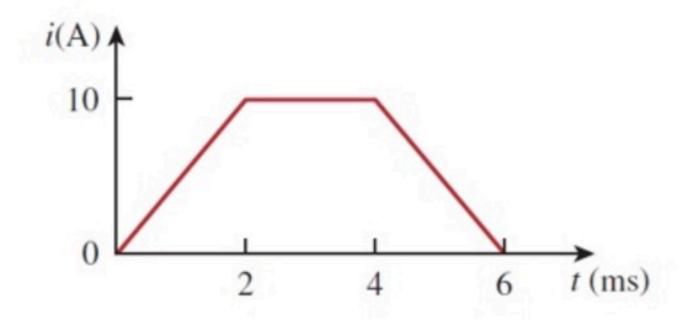
Unlimited Attempts.

Below is the current through a 5 µH inductor.

What is the voltage v_1 across the inductor at time t = 3 ms?

What is the voltage v_2 across the inductor at time t = 5 ms?



Given Variables:

. : . .

Calculate the following:

v1 (V):

U

v2 (V):

-0.025

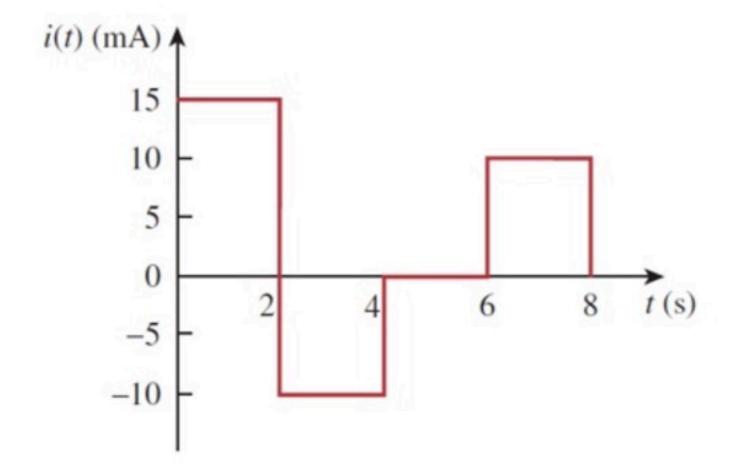
Hint: Check the units.

Unlimited Attempts.

Below is the current through a 400 μ F capacitor. The voltage across the capacitor at time t = 0 is 5 V.

What is the voltage v_1 across the capacitor at time t = 3 s?

What is the voltage v_2 across the capacitor at time t = 8 s?



Given Variables:

. : . .

Calculate the following:

v1 (V):

55

v2 (V):

80

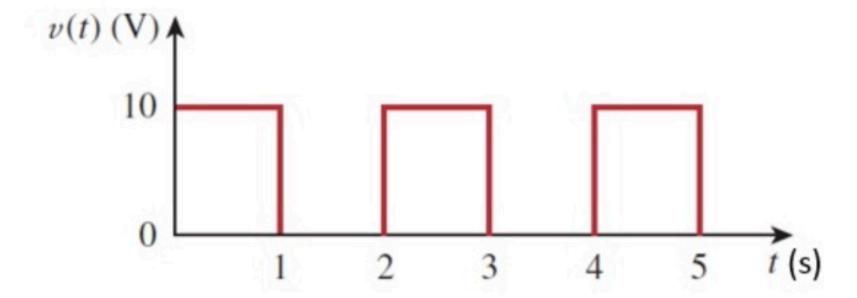
Hint: Check the units.

Unlimited Attempts.

Below is the voltage across a 4 H inductor. The current through the inductor at time t = 1 s is -1 A.

What is the current i_1 through the inductor at time t = 3 s?

What is the current i_2 through the inductor at time t = 4.5 s?



Given Variables:

. : . .

Calculate the following:

i1 (A):

1.5

i2 (A):

Unlimited Attempts.

The current through a 400 nF capacitor is $0.05e^{-2\,\mu s}$ A. The voltage across the capacitor at time t = 0 is 1 V.

What is the voltage v across the capacitor at time $t = \infty$?

Given Variables:

. : . .

Calculate the following:

v (V):



Unlimited Attempts.

The current through a 20 mH inductor is $0.04te^{-\frac{\iota}{2\,\mu s}}$ A.

What is the voltage v_1 across the inductor at time t = 0?

Given Variables:

. : . .

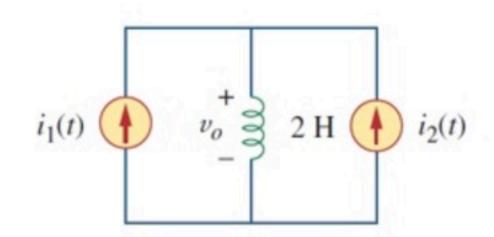
Calculate the following:

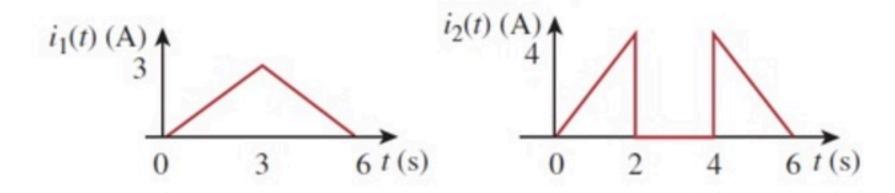
v1 (mV):



Unlimited Attempts.

What is the voltage v_o at time t = 5 s?





Given Variables:

. : . .

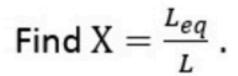
Calculate the following:

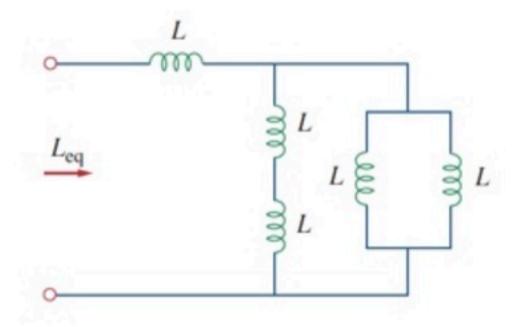
Hint: Use superposition

vo (V):

-6

Unlimited Attempts.





Given Variables:

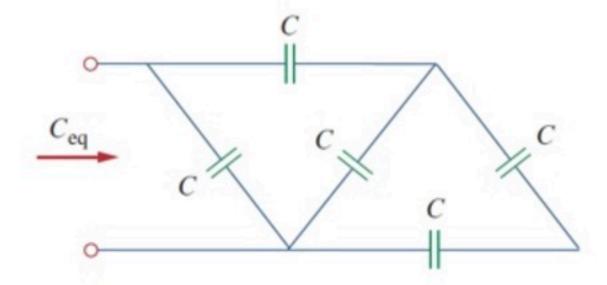
. : . .

Calculate the following:

X (H/H):

Unlimited Attempts.

Find
$$X = \frac{c_{eq}}{c}$$
.



Given Variables:

. : . .

Calculate the following:

X (F/F):