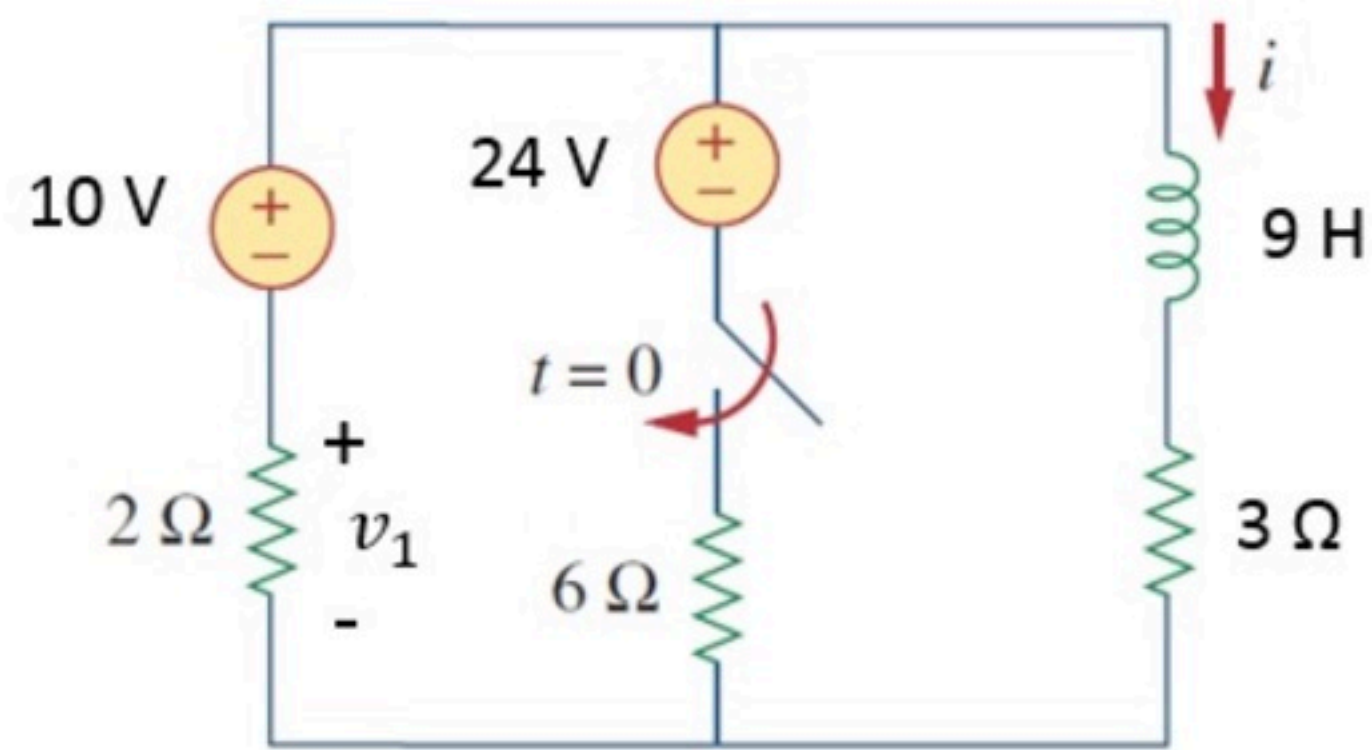# PP First order circuits 007

The switch has been open for a long time.
At time $t = 0$, the switch is closed.

Find
$$v_1(t) = D \qquad \text{for } t = 0^-$$
$$ = A \cdot e^{-t/tau} + B \qquad \text{for } t > 0$$

Given Variables:

. : . .

Calculate the following:

D (V) :

-4 ✓

A (V) :

1.5 ✓

B (V) :

-1 ✓

tau (s) :

2 ✓

Hint: First find the inductor current just before the switch opens.