

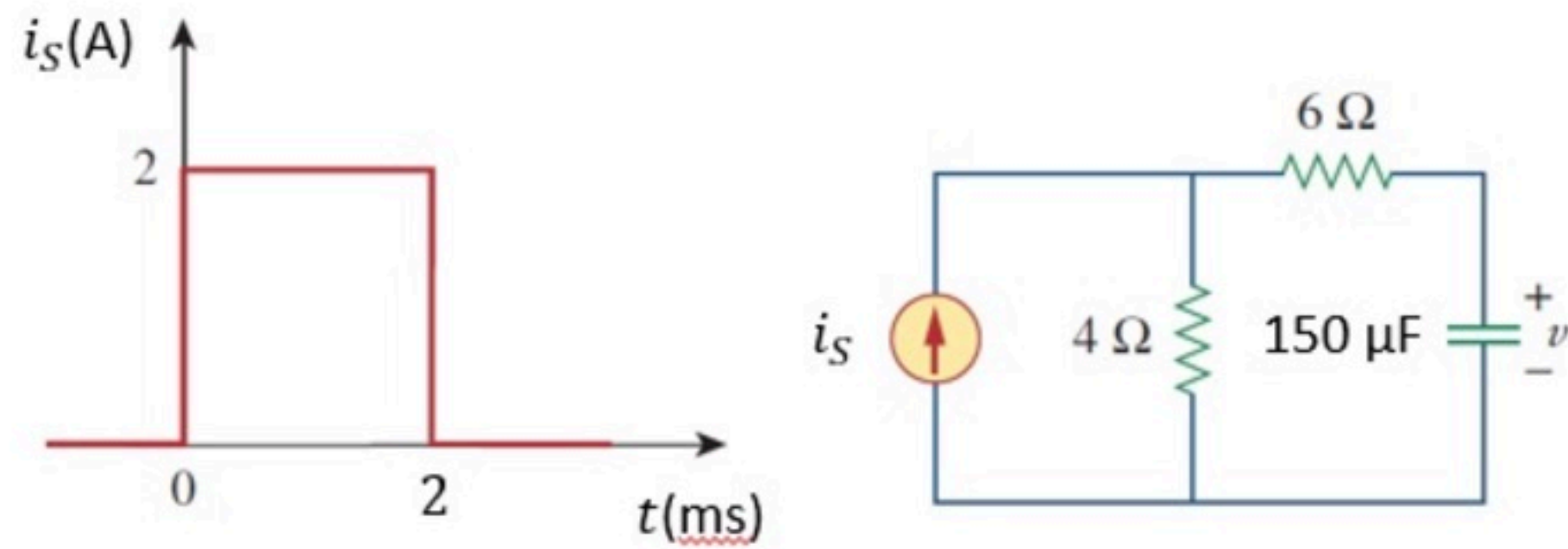
PP First order circuits 010

Unlimited Attempts.

The current source behaves as shown (and assume it has been zero for a long time for $t < 0$).

Find $v(t) = D$ for $t = 2^- \text{ ms}$
 $= A \cdot e^{-(t-2 \text{ ms})/\tau} + B$ for $t > 2 \text{ ms}$

Note, for your calculations, use: $e^{-1/1.5} \approx 0.5$



Given Variables:

...

Calculate the following:

D (V) :

6

✓

A (V) :

6

✓

B (V) :

0

✓

τ (ms) :

1.5

✓

Hint: Find the result of the first transition first.