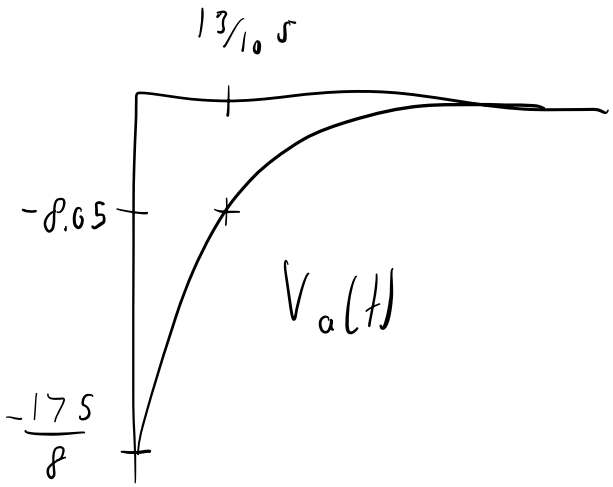
(1) $\frac{35V}{16\Omega} = 2.1875A$ $\quad i_a(0_-) = 2.19A, v_a(0_-) = 0$

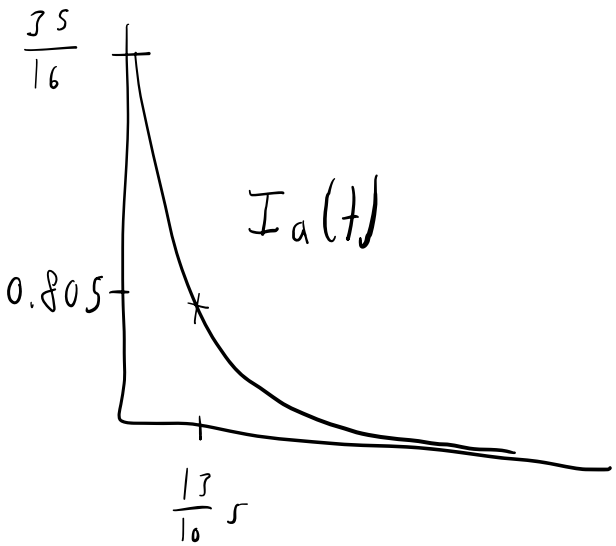
$V_a(0_+) = -10 \cdot \frac{35}{16} = -\frac{175}{8}$ $\quad \tau = \frac{L}{R} = \frac{13}{10}s$

$I_a(0_+) = \frac{35}{16}A$

$$V_a(+) = -\frac{175}{8} e^{\frac{-10t}{13}}$$

$$I_a(t) = \frac{35}{16} e^{\frac{-10t}{13}}$$



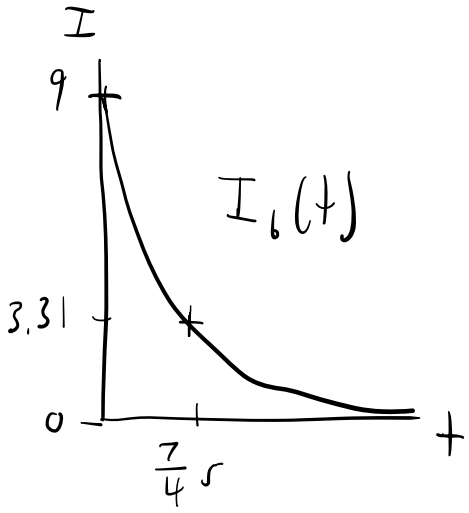



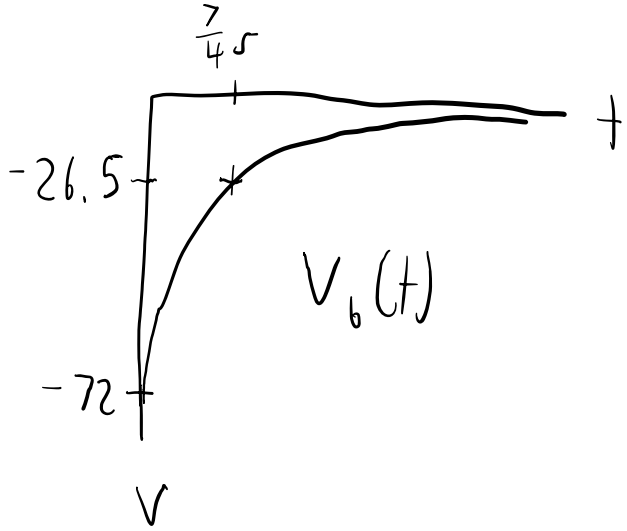

(2) $I_b(0_-) = 9A$ $\quad V_b(0_-) = 0V$ $\quad \tau = \frac{L}{R} = \frac{7}{4}$

$$I_b(t) = 9e^{\frac{-4t}{7}}$$

$V_b(0_+) = -9 \cdot 8 = -72$

$$V_b(t) = -72e^{\frac{-4t}{7}}$$


I
9
3.31
0
$I_6(t)$
$\frac{7}{4}s$
t


$\frac{7}{4}s$
-26.5
-72
$V_6(t)$
t
V