Basic concepts 002

Problem has been graded.

Determine the values of B1, B2 and B3.

The current through a circuit element is

$$i(t) = A1 \cdot e^{\frac{t}{A2}}$$
$$= 0$$

for
$$t \ge 0$$
 for $t < 0$

The total charge that has entered the circuit element can be represented as

$$q(t) = B1 + B2 \cdot e^{\frac{t}{B3}}$$
$$= 0$$

for
$$t \ge 0$$
 for $t < 0$

Given Variables:

A1:4A A2:-3s

Calculate the following:

B1 (C):

B2 (C):

B3 (s):