ENGR-2910-101

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**Homework-10**

**Question 1**

When t=0, i=40mA, and V=28V.

⇒

Plug back in, we get

**Question 2**

A close up of a map

Description automatically generated

**Question 3**

**Question 4**

**A close up of a sign

Description automatically generated**

A close up of a sign

Description automatically generated

Node a:

⇒

A picture containing object, clock, light, man

Description automatically generated

Plug all of that in, we have ⇒

Simplify

So, we have

Combine and , or

**mA, when t=0, i=15mA, i’=-20**

**Question 5**

1,

⇒ ,

when t=0, V=0V, so we know C=-100

When t=4,

2,

⇒ ,

when t=4 ms, , we know ,

when t=8 ms,

3,

⇒ ,

when t=8 ms, ,

we know C

A close up of a map

Description automatically generated