



My aim is to calculate the voltage at node A that is voltage V.

$$-V2 + I \cdot R1 + I \cdot R2 = 0;$$

$$-5 + I \cdot 100 + I \cdot 100 = 0;$$

$$I = 5/200$$

$$I = 0.025\text{amp}$$

Now I want to calculate the voltage at Node A that is voltage V

Is the following equation write or wrong same KVL I am applying?

$$-V2 + I \cdot R1 = V$$

$$-5 + 0.025 \cdot 100 = V$$

$$V = -2.5\text{V}.$$

I know I am making some mistake the voltage is not -2.5 but 2.5 but why I am getting -2.5V.

Could someone please explain me. I have this confusion for very long time.

