Below is the current through a 400 µF capacitor. The voltage across the capacitor at time $t = 0$ is 5 V.

What is the voltage v_1 across the capacitor at time $t = 3$ s?

What is the voltage v_2 across the capacitor at time $t = 8$ s?
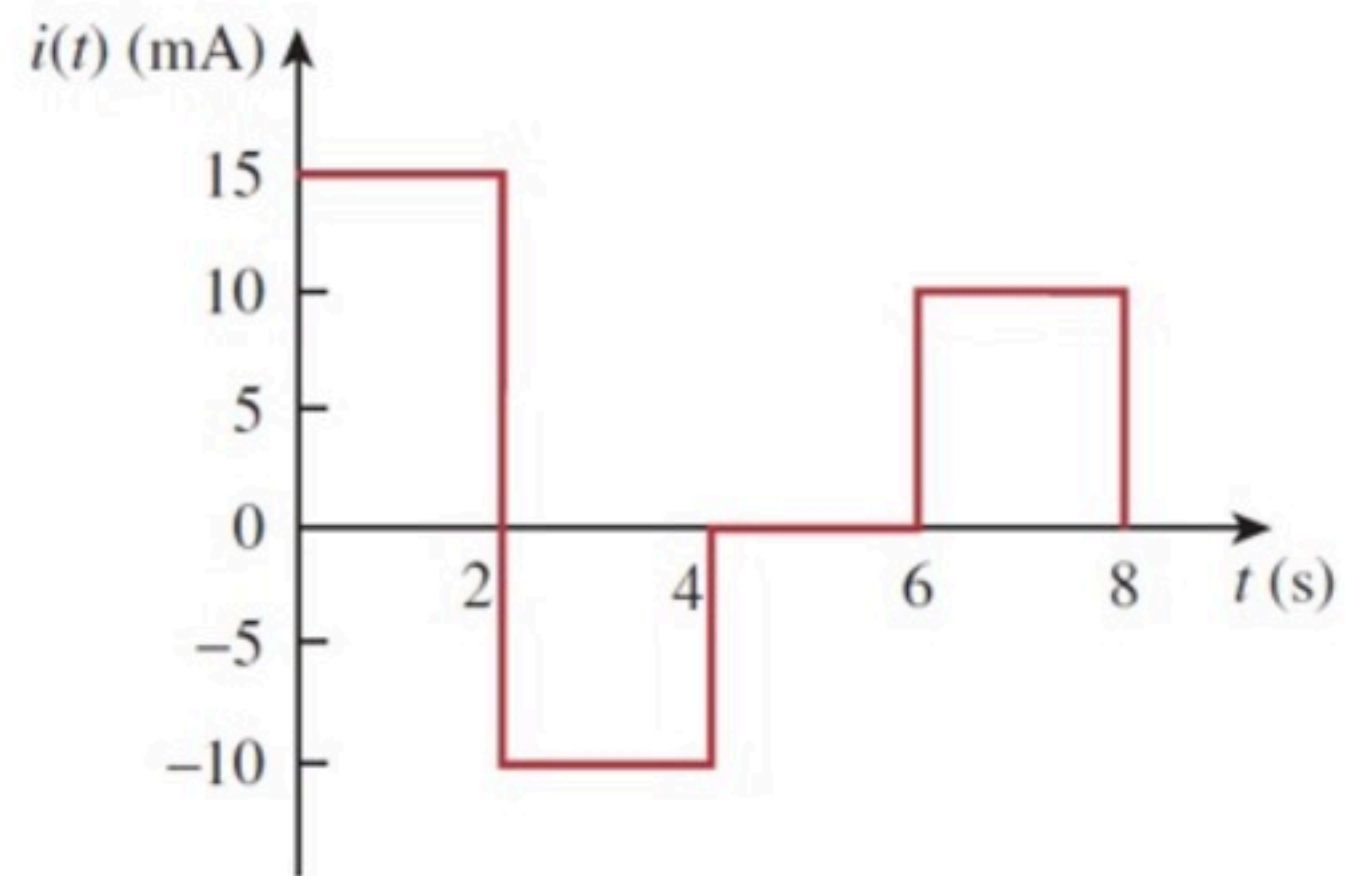
Given Variables:

. : . .

Calculate the following:

v1 (V) :

55 ✓

v2 (V) :

80 ✓

Hint: Check the units.