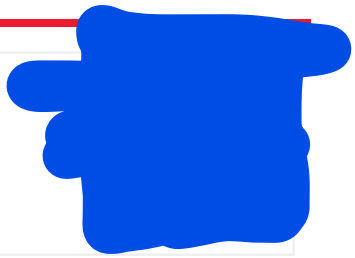


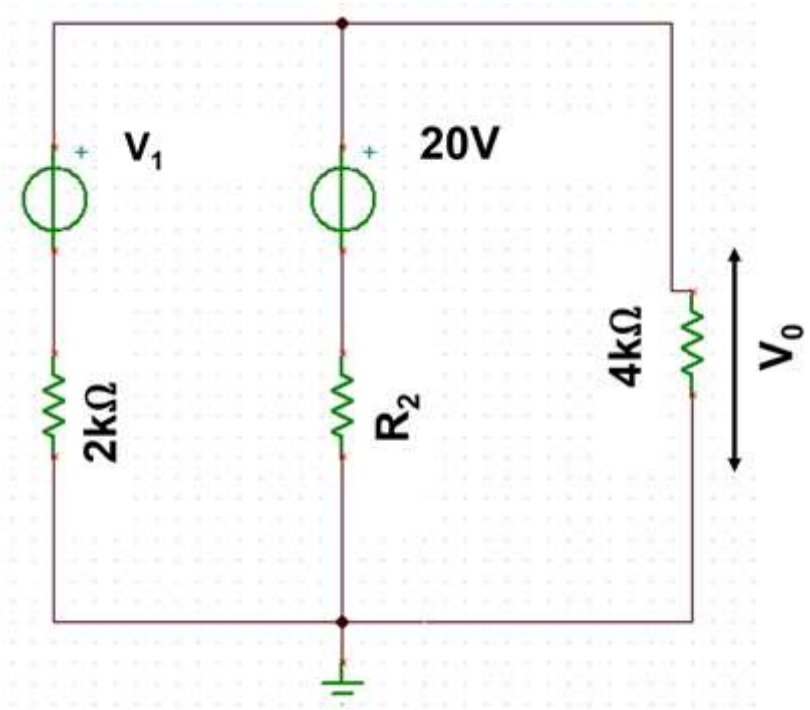
Started on	Thursday, 21 January 2021, 7:00 PM
State	Finished
Completed on	Thursday, 21 January 2021, 7:30 PM
Time taken	30 mins 1 sec
Grade	**3.00** out of 5.00 (**60**%)

Question 1

Correct

Mark 1.00 out of 1.00

For the circuit shown in Figure below, find the voltage V_0. Given V_1=7.8 V and R_2=4.4 kΩ



Select one:

- a. 4.32
- b. 17.28
- c. 8.64 ✓
- d. 0.33

Your answer is correct.

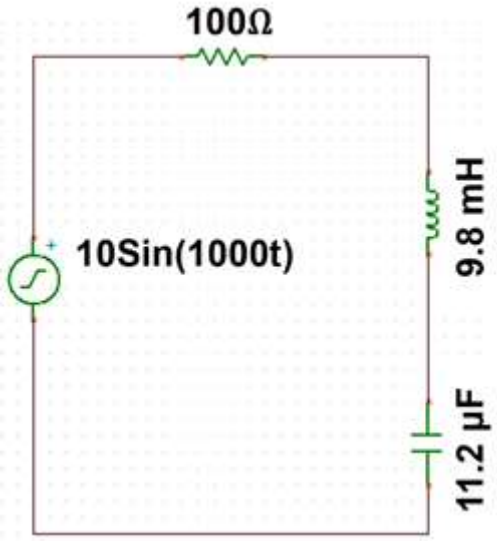
The correct answer is: 8.64

Question 2

Incorrect

Mark 0.00 out of 2.00

Calculate the current (mA) in polar form flowing through the resistor in the circuit given below



Select one:

- a. Magnitude=78.3 and Phase=-38.47° ✗
- b. Magnitude=78.3 and Phase=38.47°
- c. Magnitude=58.7 and Phase=38.47°
- d. magnitude=58.7 and angle=-38.47°

Your answer is incorrect.

The correct answer is: Magnitude=78.3 and Phase=38.47°

Question 3

Correct

Mark 1.00 out of 1.00

If a voltage ($At^2 + Bt^{3/2} + C$) V is applied across a 4.8 μF capacitor, then evaluate the current (in μA) flowing through the capacitor at t = 4.2 seconds. Given A=1.5, B=3.2, C=5.6.

Select one:

- a. 134.58
- b. 10.26
- c. 107.70 ✓
- d. 2.76

Your answer is correct.

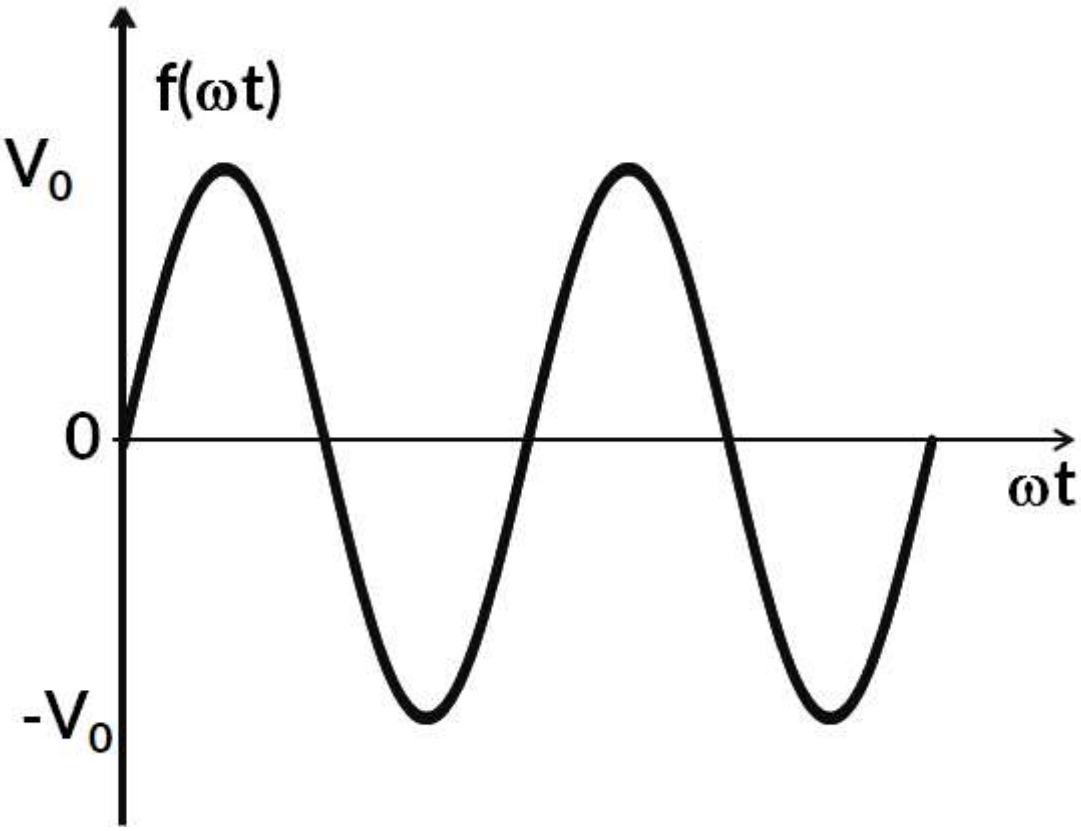
The correct answer is: 107.70

Question 4

Correct

Mark 1.00 out of 1.00

Peak-to-peak value of the following sinusoidal waveform is 10.6 V. The rms value (in Volt) of the waveform is



Select one:

- a. 14.99
- b. 3.75 ✓
- c. 5.30
- d. 7.50

Your answer is correct.

The correct answer is: 3.75