Assignment 3

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) Determine the power delivered by the current source in the figure below.

(The answer must be in milliwatts (mW). Round off fractional answers to one decimal place.)

2) In the figure below, in the circuit on the left, the network N which consists only of resistors draws an energy of 1.28J over a period of 1 minute. The same circuit is driven by a 24V source in (b). Determine the current I.

(The answer must be in milliamperes (mA). Round off fractional answers to one decimal place.)
3) **Determine the energy delivered** by the voltage source from $t = 0$ to $t = 3 \, \mu s$ in the figure below. The inductor current is zero at $t = 0$.

![Inductor current diagram]

(The answer must be in **microjoules** ($\mu J$). Round off fractional answers to one decimal place.)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 63, 65

4) **Determine the power delivered** by the 6 V voltage source in the figure below.

![Voltage source diagram]

(The answer must be in Watts (W). Round off fractional answers to one decimal place.)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) -228

5) In the figure below, determine the power **delivered** by the 8mA current source.

![Current source diagram]

(The answer must be in **milliwatts** (mW). Round off fractional answers to one decimal place.)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) -128
6) In the figure below, determine the energy delivered by the current source from \( t = 0 \) to \( t = 4 \) ms.

![Current Waveform](image)

(The answer must be in microjoules (\( \mu \text{J} \)). Round off fractional answers to one decimal place.)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 0

7) In the figure below, identify the elements that are passive. There maybe more than one.

- (a) ![Element](image)
- (b) ![Element](image)
- (c) ![Element](image)
- (d) ![Element](image)
- (e) ![Element](image)
- (f) ![Element](image)
- (g) ![Element](image)
- (h) ![Element](image)

No, the answer is incorrect.
Score: 0
Accepted Answers:
b
ea

8) Determine the power delivered by the -10V source in the figure below.

![Circuit Diagram](image)

(The answer must be in milliwatts (mW)). Round off fractional answers to one decimal place.)
9) Determine the number of independent KCL equations that can be written for the circuit below (treat each two-terminal element as a branch).

Your answer must be the number of equations.

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 5.75, 6.75

10) Determine the number of independent KVL equations that can be written for the circuit below (treat each two-terminal element as a branch).

Your answer must be the number of equations.

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 6