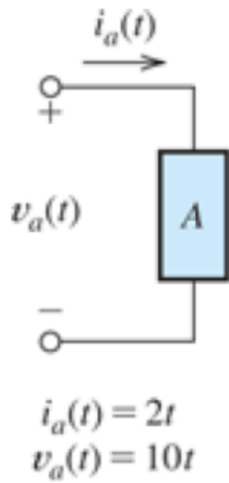


Quiz 1 (3/29/2021) Answers



Q1: Compute the power as a function of time for each of the elements shown in figure?

- A.) 5 [W]
- B.) $20t^2$ [W]
- C.) $20t$ [W]
- D.) 0.2 [W]

Q2: Find the energy transferred between $t=0$ seconds to $t=10$ seconds?

- A.) 200 [J]
- B.) 2000 [J]
- C.) 6667 [J]
- D.) None of the above

$$E = \int_0^{10s} P(t)dt = \frac{20}{3}t^3$$

Q3: 3. Is the energy supplied or absorbed by the element 'A'?

- A.) Energy supplied by 'A'
- B.) Energy absorbed by 'A'