

16. Let $\sin t = 3 + 2t$. Then what is the value of

$$\int \sin 3t \, dt = 0.5t$$

where $\sin t = 0$ is not singular at $t = -0.5$?

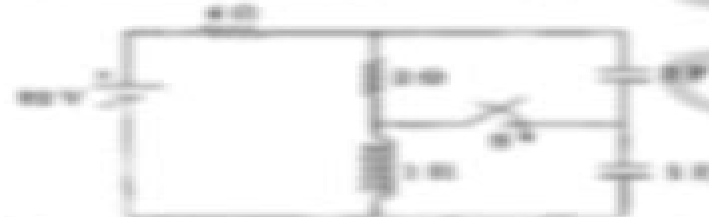
17. The eigenvalue property of state transition matrix

- (a) $\Phi(t) = e^{At}$
(b) $\Phi(t) = e^{At} \Phi(0)$
(c) $\Phi(t) = e^{At} \Phi(0) e^{At}$
(d) $\Phi(t) = e^{At} \Phi(0) e^{At}$

18. If $\frac{dV}{dt} = 0$, $V = 0$ and $\frac{dV}{dt} = 0$, then V

- (a) increases exponentially
(b) decreases exponentially
(c) increases linearly
(d) decreases linearly

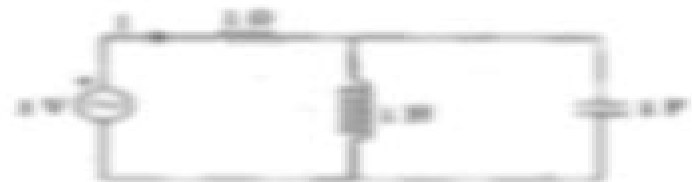
19.



The circuit shown is in steady-state with switch S open. The switch is closed at $t = 0$. What is the current through $10 \, \Omega$ resistor at time $t = 0^+$?

- (a) $0.5 \, A$
(b) $1.0 \, A$
(c) $1.5 \, A$
(d) $2.0 \, A$

20.



In the circuit shown, what is the frequency at which the current i will be zero?

- (a) $0 \, \text{Hz}$
(b) $50 \, \text{Hz}$
(c) $100 \, \text{Hz}$
(d) $\infty \, \text{Hz}$

21.

Consider the following function:

- (a) $\frac{d^2y}{dt^2} + 2\frac{dy}{dt} + 2y = 0$
(b) $\frac{d^2y}{dt^2} + 2\frac{dy}{dt} + 2y = 0$
(c) $\frac{d^2y}{dt^2} + 2\frac{dy}{dt} + 2y = 0$

$$\frac{d^2y}{dt^2} + 2\frac{dy}{dt} + 2y = 0$$

What is the value of y at $t = 0$?

- (a) 0
(b) 1
(c) 2
(d) 3

22.

What happens if the sampling time is too small for the Nyquist theorem?

- (a) Aliasing distortion is caused by the original signal
(b) Undersampling distortion
(c) Quantization distortion
(d) Quantization distortion

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