X

Unit 2 - Week 0

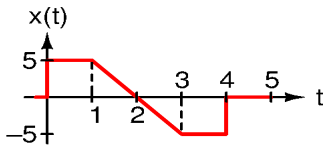
Assignment 0

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

Due on 2020-09-14, 23:59 IST.

Note : This assignment is only for practice purpose and it will not be counted towards the Final score

1)



The above figure shows $x(t)$. The waveform consists of straight line segments.

What is dx/dt at $t = 2.5$?

(The answer must be the value of dx/dt. Round off fractional answers to one decimal place.)

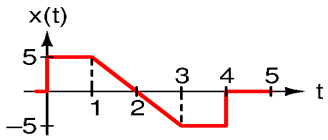
(Additional exercise: Sketch dx/dt for $0 \leq t \leq 5$)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Numeric) -5

1 point

2)



The above figure shows $x(t)$. The waveform consists of straight line segments.

What is $\int_0^{3.5} x(t)dt$?

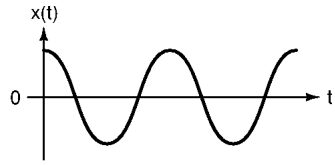
(The answer must be the value of the integral. Round off fractional answers to one decimal place.)

(Additional exercise: Sketch $\int_0^t x(\tau)d\tau$ for $0 \leq t \leq 5$)

No, the answer is incorrect.
Score: 0

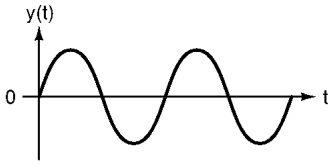
Accepted Answers:
(Type: Numeric) 2.5

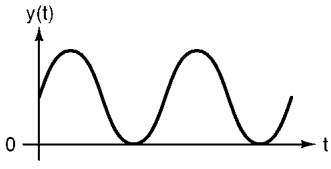
1 point

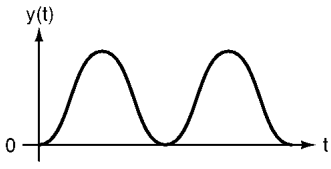
3) 

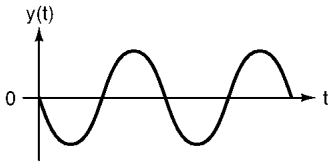
1 poin

The figure above shows $x(t)$. Which of the choices below best represents $y(t) = \int_0^t x(\tau)d\tau$?

A) 

B) 

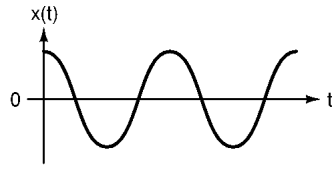
C) 

D) 

- A
- B
- C
- D

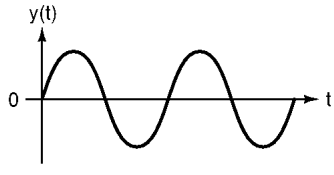
No, the answer is incorrect.
Score: 0

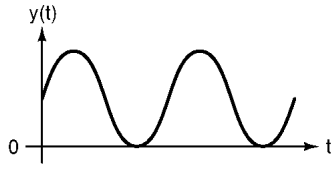
Accepted Answers:
A

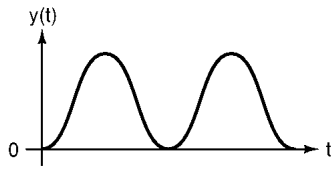
4) 

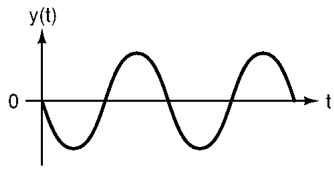
1 poin

The figure above shows $x(t)$. Which of the choices below best represents $y(t) = dx/dt$?

A) 

B) 

C) 

D) 

- A
- B
- C
- D

No, the answer is incorrect.
Score: 0

Accepted Answers:
D

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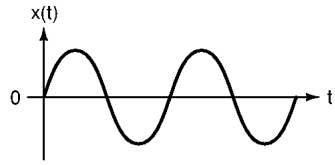
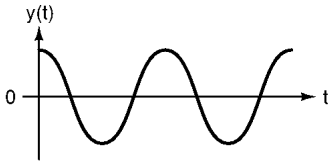
5) *1 poin*



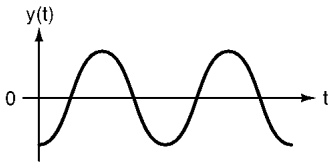
The figure above shows $x(t)$. Which of the choices below best represents $y(t) = \int_0^t x(\tau)d\tau$?

A)

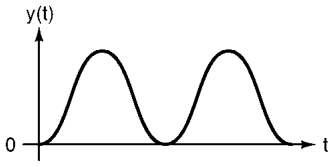


B)

C)



D)



- A
- B
- C
- D

No, the answer is incorrect.
Score: 0

Accepted Answers:
D

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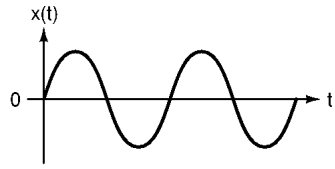
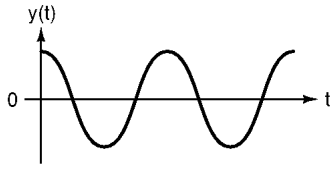
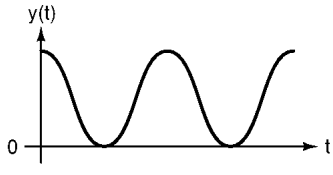
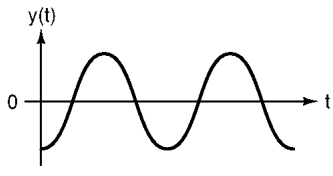
6) 

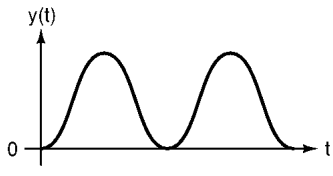
1 poin

The figure above shows $x(t)$. Which of the choices below best represents $y(t) = dx/dt$?

A) 

B) 

C) 

D) 

- A
- B
- C
- D

No, the answer is incorrect.
Score: 0

Accepted Answers:
A

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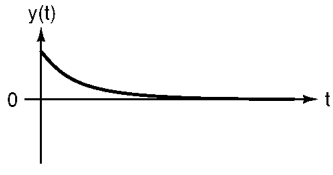
7) 

1 point

The figure above shows $x(t)$. Which of the choices below best represents $y(t) = dx/dt$?

A) 

B) 

C) 

D) 

- A
- B
- C
- D

No, the answer is incorrect.
Score: 0

Accepted Answers:
C

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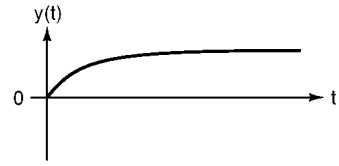
8) 

1 poin

The figure above shows $x(t)$. Which of the choices below best represents $y(t) = \int_0^t x(\tau)d\tau$?

A) 

B) 

C) 

D) 

- A
- B
- C
- D

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

$$\mathbf{A} = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$$

Its inverse $\mathbf{B} = \mathbf{A}^{-1}$ is

$$\mathbf{B} = \begin{bmatrix} b_{11} & b_{12} \\ b_{21} & b_{22} \end{bmatrix}$$

9) What is the value of b_{11} ?

Hint

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) -2

1 poin

10) What is the value of b_{12} ?

Hint

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 1

1 point

11) What is the value of b_{21} ?

Hint

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 1.5

1 point

12) What is the value of b_{22} ?

Hint

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) -0.5

1 point