VARIABEL KOMPLEKS TT-43-11 [IAL]

<u>Dashboard</u> / My courses / <u>TTI2A3-TT-43-11</u> / <u>Minggu XIII : Deret dan Transformasi Fourier (Bagian II)</u> / <u>QUIZ XIII</u>

Started on Monday, 14 December 2020, 12:46 PM

State Finished

Completed on Monday, 14 December 2020, 1:00 PM

Time taken 13 mins 16 secs

Marks 15.00/15.00

Grade 10.00 out of 10.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

Tentukan invers transformasi fourier dari fungsi berikut $F(iw) = \frac{2}{(iw)^2 + 6iw - 27}$

Select one:

$$-\frac{1}{6}e^{-9t}u(t) + \frac{1}{6}e^{3t}u(t) \checkmark$$

b.
$$\frac{1}{6}e^{9t}u(t) - \frac{1}{6}e^{-3t}u(t)$$

c.
$$-\frac{1}{6}e^{9t}u(t) + \frac{1}{6}e^{-3t}u(t)$$

d.
$$-\frac{1}{6}e^{9t}u(t) - \frac{1}{6}e^{-3t}u(t)$$

Your answer is correct.

$$-\frac{1}{6}e^{-9t}u(t)+\frac{1}{6}e^{3t}u(t)$$

Question ${f 2}$ Correct

Mark 1.00 out of 1.00

Tentukan invers transformasi fourier dari fungsi berikut $F(iw) = \frac{1}{(iw+2)^2}$

Select one:

- - $e^{(-2t)^2}u(t)$
- $e^{(2t)^2}u(t)$
- c. $t e^{2t} u(t)$

Your answer is correct.

The correct answer is:

 $t e^{-2t}u(t)$

Question ${\bf 3}$

Correct

Mark 1.00 out of 1.00

Tentukan invers transformasi fourier dari fungsi berikut $F(iw) = \frac{4iw - 16}{(iw)^2 - 8iw + 15}$

Select one:



$$2e^{3t}u(t)+2e^{5t}u(t)$$

$$2e^{3t}u(t)-2e^{5t}u(t)$$

$$2e^{-3t}u(t)+2e^{-5t}u(t)$$

d.
$$-2e^{-3t}u(t)-2e^{-5t}u(t)$$

Your answer is correct.

$$2e^{3t}u(t) + 2e^{5t}u(t)$$

Question ${f 4}$

Correct

Mark 1.00 out of 1.00

Tentukan invers transformasi fourier dari fungsi berikut $F(iw) = \frac{2}{iw+9}$

Select one:

- - $3 \sin(2t) u(t)$
- - $-2 \sin(3t) u(t)$

$$2 e^{-3t} u(t)$$

$$-3\sin(2t)u(t)$$

Your answer is correct.

$$2 e^{-3t} u(t)$$

Correct

Mark 1.00 out of 1.00

Tentukan invers transformasi fourier dari fungsi berikut $F(iw) = \frac{3 iw}{(iw)^2 + 8}$

Select one:

- ___ a.
 - $\sqrt{3}\cos(8t)u(t)$
- () b
 - $-3\cos(\sqrt{8}t)u(-t)$
- **o**
 - 3 $\cos(\sqrt{8}t) u(t) \checkmark$
- ____ d.

 $3\cos(8t)u(t)$

Your answer is correct.

The correct answer is:

 $3\cos(\sqrt{8}t)u(t)$

Question 6

Correct

Mark 1.00 out of 1.00

Tentukan invers transformasi fourier dari fungsi berikut $F(iw) = \frac{1}{(iw)^2 + 4}$

Select one:

- ____ a.
 - $2\cos(t)u(t)$
- () b
 - $2 \sin(t) u(t)$
- \circ c. sin(2t) u(t)
- () d.

cos(2t) u(t)

Your answer is correct.

The correct answer is: sin(2t) u(t)

Question **7**Correct

Mark 1.00 out of 1.00

Tentukan invers transformasi fourier dari fungsi berikut $F(iw) = \frac{iw}{((iw)^2 + 9)^2}$

Select one:

- () a.
 - $t^2 \cos(3t) u(t)$
- () b
 - $t\cos(3t^2)u(t)$
- - $t^2\cos\left(3t^2\right)u(t)$
- **o**
 - $t \cos(3t) u(t) \checkmark$

Your answer is correct.

The correct answer is:

 $t\cos(3t)u(t)$

Question 8

Correct

Mark 1.00 out of 1.00

Tentukan invers transformasi fourier dari fungsi berikut $F(iw) = \frac{2}{iw-3}$

Select one:

- a. $-2e^{-3t}u(t)$
- \bigcirc k

$$2e^{-3t}u(t)$$

() c

$$-2e^{3t}u(t)$$

o d. $2e^{3t}u(t)$

Your answer is correct.

The correct answer is: $2e^{3t}u(t)$

Question ${\bf 9}$

Correct

Mark 1.00 out of 1.00

Tentukan invers transformasi fourier dari fungsi berikut $F(iw) = \frac{-4}{(iw)^2 - 8iw + 15}$

Select one:



$$2e^{3t}u(t)-2e^{5t}u(t)$$

$$2e^{-3t}u(t)-2e^{-5t}u(t)$$

$$2e^{3t}u(t) + 2e^{5t}u(t)$$

$$2e^{-3t}u(t)+2e^{-5t}u(t)$$

Your answer is correct.

$$2e^{3t}u(t)-2e^{5t}u(t)$$

Correct

Mark 1.00 out of 1.00

Tentukan invers transformasi fourier dari fungsi berikut $F(iw) = \frac{2}{-5 + iw}$

Select one:

- a. -2e^{5t}u(t)
- b. -2e^{-5t}u(t)
- c.
 2e^{5t}u(t) ✓
- d. $2e^{-5t}u(t)$

Your answer is correct.

The correct answer is:

 $2e^{5t}u(t)$

Correct

Mark 1.00 out of 1.00

Tentukan invers transformasi fourier dari fungsi berikut $F(iw) = \frac{2}{(iw)^2 + 9}$

Select one:

- ___ a.
 - $-2\sin(3t)u(t)$
- ____ b.
 - $3 \sin(2t) u(t)$
- - $2\sin(-3t)u(t)$
- **o** d.
 - $2 \sin(3t) u(t) \checkmark$

Your answer is correct.

The correct answer is:

 $2\sin(3t)u(t)$

Correct

Mark 1.00 out of 1.00

Tentukan invers transformasi fourier dari fungsi berikut $F(iw) = \frac{3 iw + 5}{(iw)^2 + 16}$

Select one:

- - $4\cos(3t)u(t) + 4\sin(5t)u(t)$

 $3\cos(-4t)u(t) - 5\sin(-4t)u(t)$

 $3\cos(4t)u(t) + 5\sin(4t)u(t)$

 $-3\cos(4t)u(t) - 5\sin(4t)u(t)$

Your answer is correct.

The correct answer is:

 $3\cos(4t)u(t) + 5\sin(4t)u(t)$

Correct

Mark 1.00 out of 1.00

Tentukan invers transformasi fourier dari fungsi berikut $F(iw) = \frac{4 iw}{(iw)^2 + 25}$

Select one:



$$-4\cos(5t)u(t)$$

$$-4 \sin(5t) u(t)$$

____ d.

$$4 \sin(5t) u(t)$$

Your answer is correct.

The correct answer is:

 $4\cos(5t)u(t)$

Correct

Mark 1.00 out of 1.00

Tentukan invers transformasi fourier dari $F(iw) = \frac{1}{iw-6}$

Select one:

- а
 - $6e^{-6t}u(t)$
- ____ b.
 - $6e^tu(t)$
- _ c
 - $e^{-6t}u(t)$
- •

$$e^{6t}u(t)$$

Your answer is correct.

The correct answer is:

 $e^{6t}u(t)$

Qu	estion 15
Сс	prrect
М	ark 1.00 out of 1.00
	Tentukan invers Transformasi Fourier dari fungsi berikut $F(iw) = \frac{2}{iw + 4}$
	ientukan inversi fransformasi Fourier dari fungsi berikut $F(iw) = \frac{1}{iw + 4}$
	Select one:
	a. $-2e^{4t}u(t)$
	b. $2e^{4t}u(-t)$
	• c.
	$2e^{-4t}u(t)$
	○ d
	$2e^{4t}u(t)$
	Your answer is correct.
	The correct answer is:
	$2e^{-4t}u(t)$
	Previous Activity
	Jump to •
	Next Activity