Kezdés ideje	2019. November 25., Monday, 19:04
Állapot	Befejezte
Befejezés dátuma	2019. November 26., Tuesday, 08:01
Felhasznált idő	12 óra 56 perc
Pontok	19,51/25,00
Pont	**7,81** a maximum 10,00 közül (**78**%)

Információ

A feladatok megoldása során a képzetes egység jelölésére a "j" karaktert használja!

$\sqrt{(-1)} = j$

A képzetes egység jelölésére az "i" karaktert nem fogadjuk el!

A feladatok megoldása során a számolt értékeket 4 tizedesjegy hosszan adja meg!

Azon feladatrészekben, ahol szöget kell megadni válaszul, a szög értékét radiánban adja meg $[-\pi, +\pi]$ értékhatárok között!

1 kérdés

Helyes

2,00 közül 2,00

leosztályozva

Adott egy folytonos idejű rendszer az alábbi állapotváltozós leírással:

$$\underline{x}'(t) = \begin{bmatrix} 22.4918 & -29.0579 \\ 25.7377 & -22.2918 \end{bmatrix} \underline{x}(t) + \begin{bmatrix} -15.5 \\ -16.4 \end{bmatrix} u(t)$$

$$y(t) = \begin{bmatrix} 14.4 & -1.8 \end{bmatrix} \underline{x}(t) + (16.2) u(t)$$

Számítsa ki és adja meg a b_0, b_1, b_2, a_0, a_1 és a_2 paraméterek értékét a rendszer átviteli karakterisztikájának normál alakjában:

$$H(j\omega) = \frac{b_0 (j\omega)^2 + b_1 (j\omega) + b_2}{a_0 (j\omega)^2 + a_1 (j\omega) + a_2}$$

$b_0 =$ 16.2 , $b_1 =$ -196.92 , $b_2 =$ 5794.4533

$a_0 =$ 1 , $a_1 =$ -0.2 , $a_2 =$ 246.5008

Your last answer was interpreted as follows: 16.2

Your last answer was interpreted as follows: -196.92

Your last answer was interpreted as follows: 5794.4533

Your last answer was interpreted as follows: 1

Your last answer was interpreted as follows: -0.2

Your last answer was interpreted as follows: 246.5008

Helyes válasz. Helyes válasz. Helyes válasz. Helyes válasz. Helyes válasz. Helyes válasz.

Helyes válasz.

A correct answer is 16.2, which can be typed in as follows: `16.2`

A correct answer is -196.92, which can be typed in as follows: `-196.92`

A correct answer is 5934.22084855, which can be typed in as follows: `5934.22084855`

A correct answer is 1, which can be typed in as follows: `1`

A correct answer is -0.2, which can be typed in as follows: `-0.2`

A correct answer is 246.500805589, which can be typed in as follows: `246.500805589`

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2 kérdés

Helyes

2,00 közül 2,00

leosztályozva

Adott egy diszkrét idejű rendszer az alábbi állapotváltozós leírással:

$$\underline{x}[k+1] = \begin{bmatrix} 0.7888 & 0.0742 \\ -0.0169 & 0.9112 \end{bmatrix} \underline{x}[k] + \begin{bmatrix} 3.7 \\ -15.9 \end{bmatrix} u[k]$$

$$y[k] = \begin{bmatrix} -39.7 & -33.9 \end{bmatrix} \underline{x}[k] + (-3.6) u[k]$$

Számítsa ki és adja meg a b_0, b_1, b_2, a_1, a_2 paraméterek értékét a rendszer átviteli karakterisztikájának normál alakjában:

$$H(e^{j\vartheta}) = \frac{b_0 + b_1 e^{-j\vartheta} + b_2 e^{-2j\vartheta}}{1 + a_1 e^{-j\vartheta} + a_2 e^{-2j\vartheta}}$$

$b_0 =$ -3.6 , $b_1 =$ 398.24 , $b_2 =$ -244.96

$a_1 =$ -1.7 , $a_2 =$ 0.72

Your last answer was interpreted as follows: -3.6

Your last answer was interpreted as follows: 398.24

Your last answer was interpreted as follows: -244.96

Your last answer was interpreted as follows: -1.7

Your last answer was interpreted as follows: 0.72

Helyes válasz.

A correct answer is -3.6, which can be typed in as follows: `-3.6`

A correct answer is 398.24, which can be typed in as follows: `398.24`

A correct answer is -242.372401327, which can be typed in as follows: `-242.372401327`

A correct answer is -1.7, which can be typed in as follows: `-1.7`

A correct answer is 0.720008539999, which can be typed in as follows: `0.720008539999`

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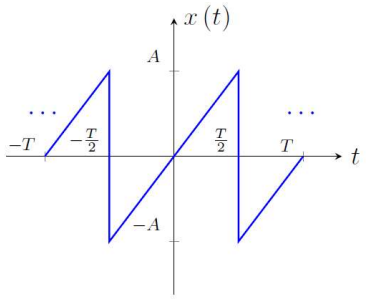
3 kérdés

Hibás

0,00 közül 2,00 leosztályozva

Adott az alábbi T periódus idejű periodikus fűrészfog jel:



Az ábrán feltüntetett paraméterek értékei: $A = 7.2$.

Számolja ki a jel Fourier-polinómjának első három nem nulla értékű együtthatóját!

$X_1 =$ 2.9181

Your last answer was interpreted as follows: 2.9181

Helytelen válasz.
Az X_1 értéke helytelen!

$X_2 =$ 0.3242

Your last answer was interpreted as follows: 0.3242

Helytelen válasz.
Az X_2 értéke helytelen!

$X_3 =$ 0.1167

Your last answer was interpreted as follows: 0.1167

Helytelen válasz.
Az X_3 értéke helytelen!

Helytelen válasz.

A correct answer is $\frac{7.2}{\pi}$, which can be typed in as follows: `7.2/%pi`

A correct answer is $-\frac{3.6}{\pi}$, which can be typed in as follows: `-3.6/%pi`

A correct answer is $\frac{2.4}{\pi}$, which can be typed in as follows: `2.4/%pi`

4 kérdés

Helyes

2,00 közül 2,00 leosztályozva

Egy diszkrét idejű periodikus jel egy periódusának értékei az alábbiak:

$x[0] = -4.3,\ x[1] = 9.6,\ x[2] = 4.5,\ x[3] = -0.4,$
$x[4] = 1.3,\ x[5] = -3.8,\ x[6] = -4.3,\ x[7] = 7.2$

Adja meg a jel komplex Fourier-sorának 6. harmónikushoz tartozó komplex együtthatóját!

$U_N^C =$ 0.4191*e^(-2.8387*j)

Your last answer was interpreted as follows: $0.4191 \cdot e^{-2.8387 \cdot \mathrm{j}}$

Helyes válasz.

A correct answer is $-0.125 \cdot \mathrm{j} - 0.4$, which can be typed in as follows: `(-0.125*%i)-0.4`

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5 kérdés

Helyes

4,00 közül 4,00

leosztályozva

Egy folytonos idejű rendszer átviteli karakterisztikája a következő alakban adott:

$H(j\omega) = \frac{2 \cdot j\omega + 5}{(j\omega)^2 + 9 \cdot j\omega + 5}$

A rendszert az alábbi jel gerjeszti:

$u(t) = 16 + 11cos(2t) + 4cos(4t)$

1. Határozza meg az átviteli tényező értékeit a válasz kiszámításához szükséges körfrekvenciákon! $(\omega_0 < \omega_1 < \omega_2)$

$H_0(j\omega_0) =$ 1

Your last answer was interpreted as follows: 1

Helyes válasz.

$H_1(j\omega_1) =$ 0.3552*e^(-0.8406*j)

Your last answer was interpreted as follows: $0.3552 \cdot e^{-0.8406 \cdot \mathrm{j}}$

Helyes válasz.

$H_2(j\omega_2) =$ 0.2506*e^(-0.8551*j)

Your last answer was interpreted as follows: $0.2506 \cdot e^{-0.8551 \cdot \mathrm{j}}$

Helyes válasz.

2. Határozza meg a rendszer válaszának időfüggvényét a megadott gerjesztésre, ha a választ az alábbi alakban keressük:

$y(t) = Y_0 + Y_1 \cdot cos(2t + \varphi_1) + Y_2 \cdot cos(4t + \varphi_2)$

$Y_0 =$ 16, $Y_1 =$ 3.9072, $\varphi_1 =$ -0.8406, $Y_2 =$ 1.0024, $\varphi_2 =$ -0.8551

Your last answer was interpreted as follows: 16

Your last answer was interpreted as follows: 3.9072

Your last answer was interpreted as follows: -0.8406

Your last answer was interpreted as follows: 1.0024

Your last answer was interpreted as follows: -0.8551

Helyes válasz.

Helyes válasz.

A correct answer is 1, which can be typed in as follows: `1`

A correct answer is $\frac{4 \cdot \mathrm{j} + 5}{18 \cdot \mathrm{j} + 1}$, which can be typed in as follows: `(4*%i+5)/(18*%i+1)`

A correct answer is $\frac{8 \cdot \mathrm{j} + 5}{36 \cdot \mathrm{j} - 11}$, which can be typed in as follows: `(8*%i+5)/(36*%i-11)`

A correct answer is 16, which can be typed in as follows: `16`

A correct answer is $\frac{11 \cdot \sqrt{41}}{5 \cdot \sqrt{13}}$, which can be typed in as follows: `(11*sqrt(41))/(5*sqrt(13))`

A correct answer is $\mathrm{atan}\left(\frac{4}{5}\right) - \mathrm{atan}\left(18\right)$, which can be typed in as follows: `atan(4/5)-atan(18)`

A correct answer is $\frac{4 \cdot \sqrt{89}}{\sqrt{1417}}$, which can be typed in as follows: `(4*sqrt(89))/sqrt(1417)`

A correct answer is $\mathrm{atan}\left(\frac{36}{11}\right) + \mathrm{atan}\left(\frac{8}{5}\right) + \pi$, which can be typed in as follows: `atan(36/11)+atan(8/5)+%pi`

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6 kérdés

Részben helyes

3,87 közül 4,00 leosztályozva

Egy diszkrét idejű rendszer átviteli karakterisztikája az alábbi alakban adott:

$H(e^{j\vartheta}) = \frac{11.54e^{j\vartheta}+(-18.48)}{e^{j2\vartheta}+(-0.5)e^{j\vartheta}+0.8}$

A rendszert a következő jel gerjeszti:

$u[k] = -8.0 + (-4.6)cos\left(\frac{2\cdot\pi}{7}k + (-0.11)\right) + (-2.5)cos\left(\frac{4\cdot\pi}{7}k + (-2.34)\right) + (9.0)cos\left(\frac{6\cdot\pi}{7}k + (-2.96)\right)$

1. Adja meg a periodikus gerjesztés periódusszámát!

$Z =$ 7

Your last answer was interpreted as follows: 7

Helyes válasz.

2. Határozza meg az átviteli tényező értékeit a válasz kiszámításához szükséges körfrekvenciákon! $(\Theta_0 < \Theta_1 < \Theta_2 < \Theta_3)$

$H_0(e^{j\Theta_0}) =$ -5.3385

Your last answer was interpreted as follows: -5.3385

Helyes válasz.

$H_1(e^{j\Theta_1}) =$ 22.5190*e^(1.3233*j)

Your last answer was interpreted as follows: $22.519 \cdot e^{1.3233 \cdot \mathrm{j}}$

Helyes válasz.

$H_2(e^{j\Theta_2}) =$ 25.9019*e^(-2.0729*j)

Your last answer was interpreted as follows: $25.9019 \cdot e^{-2.0729 \cdot \mathrm{j}}$

Helyes válasz.

$H_3(e^{j\Theta_3}) =$ 13.8017*e^(-2.8236*j)

Your last answer was interpreted as follows: $13.8017 \cdot e^{-2.8236 \cdot \mathrm{j}}$

Helyes válasz.

3. Határozza meg a rendszer válaszának időfüggvényét a megadott gerjesztésre, ha a választ az alábbi alakban keressük:

$y[k] = Y_0 + Y_1 cos(N_1 \frac{2\cdot\pi}{7}k + X_1) + Y_2 cos(N_2 \frac{2\cdot\pi}{7}k + X_2) + Y_3 cos(N_3 \frac{2\cdot\pi}{7}k + X_3)$

$Y_0 =$ 42.7077, $Y_1 =$ 103.5874, $N_1 =$ 1, $X_1 =$ 2.1249, $Y_2 =$ 64.7548, $N_2 =$ 2, $X_2 =$ -1.2713, $Y_3 =$ 124.2153, $N_3 =$ 3, $X_3 =$ 0.1428

Your last answer was interpreted as follows: 42.7077

Your last answer was interpreted as follows: 103.5874

Your last answer was interpreted as follows: 2.1249

Your last answer was interpreted as follows: 64.7548

Your last answer was interpreted as follows: 2

Your last answer was interpreted as follows: -1.2713

Your last answer was interpreted as follows: 124.2153

Your last answer was interpreted as follows: 3

Your last answer was interpreted as follows: 0.1428

Your last answer was interpreted as follows: 1

Részben helyes válasz.
X_1 értéke helytelen!

X_3 értéke helytelen!

Részben helyes válasz.

A correct answer is 7, which can be typed in as follows: `7`

A correct answer is -5.33846153846, which can be typed in as follows: `-5.33846153846`

A correct answer is $\frac{11.54 \cdot e^{\frac{2 \cdot j \cdot \pi}{7}} - 18.48}{e^{\frac{4 \cdot j \cdot \pi}{7}} - 0.5 \cdot e^{\frac{2 \cdot j \cdot \pi}{7}} + 0.8}$, which can be typed in as follows:
`(11.54*%e^((2*%i*%pi)/7)-18.48)/(%e^((4*%i*%pi)/7)-0.5*%e^((2*%i*%pi)/7)+0.8)`

A correct answer is $\frac{11.54 \cdot e^{\frac{4 \cdot j \cdot \pi}{7}} - 18.48}{-0.5 \cdot e^{\frac{4 \cdot j \cdot \pi}{7}} + e^{-\frac{6 \cdot j \cdot \pi}{7}} + 0.8}$, which can be typed in as follows:
`(11.54*%e^((4*%i*%pi)/7)-18.48)/((-0.5*%e^((4*%i*%pi)/7))+%e^-((6*%i*%pi)/7)+0.8)`

A correct answer is $\frac{11.54 \cdot e^{\frac{6 \cdot j \cdot \pi}{7}} - 18.48}{-0.5 \cdot e^{\frac{6 \cdot j \cdot \pi}{7}} + e^{-\frac{2 \cdot j \cdot \pi}{7}} + 0.8}$, which can be typed in as follows:
`(11.54*%e^((6*%i*%pi)/7)-18.48)/((-0.5*%e^((6*%i*%pi)/7))+%e^-((2*%i*%pi)/7)+0.8)`

A correct answer is 42.7076923076, which can be typed in as follows: `42.7076923076`

A correct answer is $\frac{4.6 \cdot \sqrt{133.171599999 \cdot \sin^2\left(\frac{2 \cdot \pi}{7}\right) + \left(11.54 \cdot \cos\left(\frac{2 \cdot \pi}{7}\right) - 18.48\right)^2}}{\sqrt{\left(\sin\left(\frac{4 \cdot \pi}{7}\right) - 0.5 \cdot \sin\left(\frac{2 \cdot \pi}{7}\right)\right)^2 + \left(\cos\left(\frac{4 \cdot \pi}{7}\right) - 0.5 \cdot \cos\left(\frac{2 \cdot \pi}{7}\right) + 0.8\right)^2}}$, which can be typed in as follows:
`(4.6*sqrt(133.171599999*sin((2*%pi)/7)^2+(11.54*cos((2*%pi)/7)-18.48)^2))/sqrt((sin((4*%pi)/7)-0.5*sin((2*%pi)/7))^2+(cos((4*%pi)/7)-0.5*cos((2`

A correct answer is 1, which can be typed in as follows: `1`

A correct answer is 1.21, which can be typed in as follows: `1.21`

A correct answer is $\frac{2.5 \cdot \sqrt{133.171599999 \cdot \sin^2\left(\frac{4 \cdot \pi}{7}\right) + \left(11.54 \cdot \cos\left(\frac{4 \cdot \pi}{7}\right) - 18.48\right)^2}}{\sqrt{\left(-\sin\left(\frac{6 \cdot \pi}{7}\right) - 0.5 \cdot \sin\left(\frac{4 \cdot \pi}{7}\right)\right)^2 + \left(\cos\left(\frac{6 \cdot \pi}{7}\right) - 0.5 \cdot \cos\left(\frac{4 \cdot \pi}{7}\right) + 0.8\right)^2}}$, which can be typed in as follows:
`(2.5*sqrt(133.171599999*sin((4*%pi)/7)^2+(11.54*cos((4*%pi)/7)-18.48)^2))/sqrt(((-sin((6*%pi)/7))-0.5*sin((4*%pi)/7))^2+(cos((6*%pi)/7)-0.5*cos`

A correct answer is 2, which can be typed in as follows: `2`

A correct answer is 1.87, which can be typed in as follows: `1.87`

A correct answer is $\frac{9.0 \cdot \sqrt{133.171599999 \cdot \sin^2\left(\frac{6 \cdot \pi}{7}\right) + \left(11.54 \cdot \cos\left(\frac{6 \cdot \pi}{7}\right) - 18.48\right)^2}}{\sqrt{\left(-0.5 \cdot \sin\left(\frac{6 \cdot \pi}{7}\right) - \sin\left(\frac{2 \cdot \pi}{7}\right)\right)^2 + \left(-0.5 \cdot \cos\left(\frac{6 \cdot \pi}{7}\right) + \cos\left(\frac{2 \cdot \pi}{7}\right) + 0.8\right)^2}}$, which can be typed in as follows:
`(9.0*sqrt(133.171599999*sin((6*%pi)/7)^2+(11.54*cos((6*%pi)/7)-18.48)^2))/sqrt(((-0.5*sin((6*%pi)/7))-sin((2*%pi)/7))^2+((-0.5*cos((6*%pi)/7))+`

A correct answer is 3, which can be typed in as follows: `3`

A correct answer is 0.5, which can be typed in as follows: `0.5`

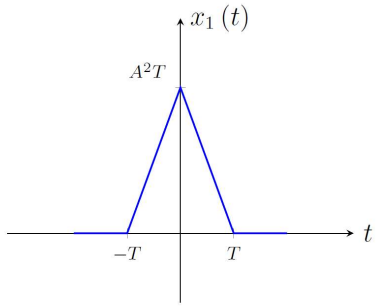
7 kérdés

Helyes

3,00 közül 3,00

leosztályozva

1. Adja meg az alábbi ábrán látható $x_1(t)$ szimmetrikus háromszögimpulzus komplex spektrumának C_1, C_2, C_3 és φ paramétereit, ha A= 1.8, és T=3.1.



A spektrum alakja:

$X_1(j\omega) = C_1 \frac{sin(\omega C_2)}{(\omega C_3)^2} sin(\omega C_2) e^{-j\varphi}$

$C_1 =$ 31.1364

Your last answer was interpreted as follows: 31.1364

Helyes válasz.

$C_2 =$ 1.55

Your last answer was interpreted as follows: 1.55

Helyes válasz.

$C_3 =$ 1.55

Your last answer was interpreted as follows: 1.55

Helyes válasz.

$\varphi =$ 0

Your last answer was interpreted as follows: 0

Helyes válasz.

2. Adja meg a spektrum valós $(Re\{X_1(j\omega)\})$ és képzetes $(Im\{X_1(j\omega)\})$ részének értékét az ω=61 körfrekvencián.

$Re\{X_1(j61)\} =$ 0.0003

Your last answer was interpreted as follows: $3.0E-4$

Helyes válasz.

$Im\{X_1(j61)\} =$ 0

Your last answer was interpreted as follows: 0

Helyes válasz.

3. Adja meg az $x_1(t)$ jel energiáját (E_1).

$E_1 =$ 208.489

Your last answer was interpreted as follows: 208.489

Helyes válasz.

Helyes válasz.

A correct answer is 31.1364, which can be typed in as follows: `31.1364`

A correct answer is 1.55, which can be typed in as follows: `1.55`

A correct answer is 1.55, which can be typed in as follows: `1.55`

A correct answer is 0, which can be typed in as follows: `0`

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A correct answer is $3.0855313323E-4$, which can be typed in as follows: `3.0855313323E-4`

A correct answer is 0, which can be typed in as follows: `0`

A correct answer is 208.4893344, which can be typed in as follows: `208.4893344`

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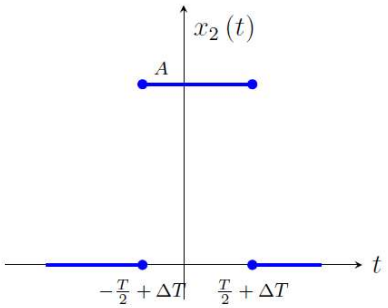
8 kérdés

Részben helyes

2,65 közül 3,00 leosztályozva

1. Adja meg az alábbi ábrán látható $x_2(t)$ szimmetrikus, eltolt négyszögimpulzus komplex spektrumának C_1, C_2, C_3 és C_4 paramétereit, ha az impulzus amplitúdója A=7.7, a szélessége T=4.1 és az eltolás ΔT = 20.



A spektrum alakja:

$X_2(j\omega) = C_1 \frac{sin(\omega C_2)}{\omega C_3} e^{-j\omega C_4}$

$C_1 =$ 31.57

Your last answer was interpreted as follows: 31.57

Helyes válasz. $C_2 =$ 2.05

Your last answer was interpreted as follows: 2.05

Helyes válasz.

$C_3 =$ 2.05

Your last answer was interpreted as follows: 2.05

Helyes válasz. $C_4 =$ 20

Your last answer was interpreted as follows: 20

Helyes válasz.

2. Adja meg a spektrum valós $(Re\{X_2(j\omega)\})$ és képzetes $(Im\{X_2(j\omega)\})$ részének C_5 - C_{14} paramétereit, ha a függvények alakjai a következőek:

$Re\{X_2(j\omega)\} = C_5 \frac{sin(\omega C_6)}{\omega C_7} cos(\omega C_8) e^{j\omega C_9}$

$Im\{X_2(j\omega)\} = -C_{10} \frac{sin(\omega C_{11})}{\omega C_{12}} sin(\omega C_{13}) e^{j\omega C_{14}}$

$C_5 =$ 31.57

Your last answer was interpreted as follows: 31.57

Helyes válasz. $C_6 =$ 2.05

Your last answer was interpreted as follows: 2.05

Helyes válasz.

$C_7 =$ 2.05

Your last answer was interpreted as follows: 2.05

Helyes válasz. $C_8 =$ 20

Your last answer was interpreted as follows: 20

Helyes válasz.

$C_9 =$ 0

Your last answer was interpreted as follows: 0

Helyes válasz. $C_{10} =$ 31.5

Your last answer was interpreted as follows: 31.5

Helyes válasz.

$C_{11} =$ 2.05

Your last answer was interpreted as follows: 2.05

Helyes válasz. $C_{12} =$ 2.05

Your last answer was interpreted as follows: 2.05

Helyes válasz.

$C_{13} =$ 20

Your last answer was interpreted as follows: 20

Helyes válasz. $C_{14} =$ 0

Your last answer was interpreted as follows: 0

Helyes válasz.

3. Adja meg a spektrum valós $(Re\{X_2(j\omega)\})$ és képzetes $(Im\{X_2(j\omega)\})$ részének értékét az ω=75 körfrekvencián.

$Re\{X_2(j75)\} =$ -0.0225

Your last answer was interpreted as follows: -0.0225

Helytelen válasz.
A spektrum valós részének az értéke az adott körfrekvencián helytelen! $Im\{X_2(j75)\} =$ 0.2032

Your last answer was interpreted as follows: 0.2032

Helytelen válasz.
A spektrum valós részének az értéke az adott körfrekvencián helytelen!

4. Adja meg az $x_2(t)$ jel energiáját (E_2).

$E_2 =$ 243.089

Your last answer was interpreted as follows: 243.089

Helyes válasz.

Részben helyes válasz.

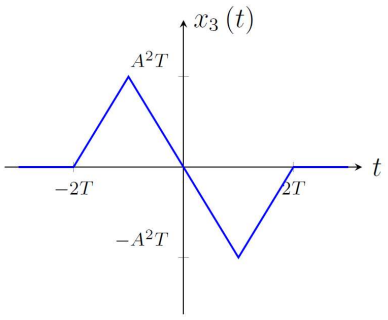
A correct answer is 31.5699999999, which can be typed in as follows: `31.5699999999`
A correct answer is 2.05, which can be typed in as follows: `2.05`
A correct answer is 2.05, which can be typed in as follows: `2.05`
A correct answer is 20, which can be typed in as follows: `20`
A correct answer is 31.5699999999, which can be typed in as follows: `31.5699999999`
A correct answer is 2.05, which can be typed in as follows: `2.05`
A correct answer is 2.05, which can be typed in as follows: `2.05`
A correct answer is 20, which can be typed in as follows: `20`
A correct answer is 0, which can be typed in as follows: `0`
A correct answer is 31.5699999999, which can be typed in as follows: `31.5699999999`
A correct answer is 2.05, which can be typed in as follows: `2.05`
A correct answer is 2.05, which can be typed in as follows: `2.05`
A correct answer is 20, which can be typed in as follows: `20`
A correct answer is 0, which can be typed in as follows: `0`
A correct answer is $0.038383746548 \cdot \cos(1500)$, which can be typed in as follows: `0.038383746548*cos(1500)`
A correct answer is $-0.038383746548 \cdot \sin(1500)$, which can be typed in as follows: `-0.038383746548*sin(1500)`
A correct answer is 243.089, which can be typed in as follows: `243.089`

9 kérdés

Nincs rá válasz

3,00 közül leosztályozva

1. Adja meg az alábbi ábrán látható $x_3(t)$ jel komplex spektrumának C_1, C_2, C_3 és C_4 paramétereit, ha A=1.8 és T=3.1.



A spektrum alakja:

$X_3(j\omega) = C_1 \frac{sin^2(\omega C_2)}{(\omega C_3)^2} sin(\omega C_4) e^{jC_5}$

$C_1 =$ $C_2 =$

$C_3 =$ $C_4 =$

$C_5 =$

2. Adja meg a spektrum valós $(Re\{X_3(j\omega)\})$ és képzetes $(Im\{X_3(j\omega)\})$ részének C_6 - C_{11} paramétereit, ha a függvények alakjai a következőek:

$Re\{X_3(j\omega)\} = C_6$

$Im\{X_3(j\omega)\} = C_7 \frac{sin^2(\omega C_8)}{(\omega C_9)^2} sin(\omega C_{10}) e^{jC_{11}}$

$C_6 =$ $C_7 =$

$C_8 =$ $C_9 =$

$C_{10} =$ $C_{11} =$

3. Adja meg a spektrum valós $(Re\{X_3(j\omega)\})$ és képzetes $(Im\{X_3(j\omega)\})$ részének értékét az ω=61 körfrekvencián.

$Re\{X_3(j61)\} =$ $Im\{X_3(j61)\} =$

4. Adja meg az $x_3(t)$ jel energiáját (E_3).

$E_3 =$

A correct answer is 62.2728, which can be typed in as follows: `62.2728`

A correct answer is 1.55, which can be typed in as follows: `1.55`

A correct answer is 1.55, which can be typed in as follows: `1.55`

A correct answer is 3.1, which can be typed in as follows: `3.1`

A correct answer is $\frac{\pi}{2}$, which can be typed in as follows: `%pi/2`

A correct answer is 0, which can be typed in as follows: `0`

A correct answer is 62.2728, which can be typed in as follows: `62.2728`

A correct answer is 1.55, which can be typed in as follows: `1.55`

A correct answer is 1.55, which can be typed in as follows: `1.55`

A correct answer is 3.1, which can be typed in as follows: `3.1`

A correct answer is 0, which can be typed in as follows: `0`

A correct answer is 0, which can be typed in as follows: `0`

A correct answer is $3.50702744894E-4$, which can be typed in as follows: `3.50702744894E-4`

A correct answer is 416.9786688, which can be typed in as follows: `416.9786688`

◄ 1. Házi feladat

Ugrás...

3. Házi feladat ►