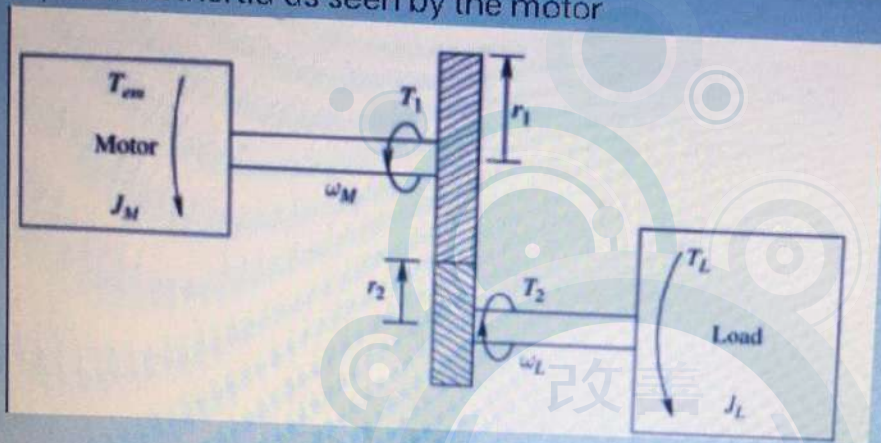


A system with motor gear $N=5$; load gear $N=15$; Motor inertia = 1 Kg.m^2 ; Load inertia = 9 Kg.m^2
equivalent inertia as seen by the motor



- a. 2
- b. 4
- c. 1
- d. 3
- e. 5

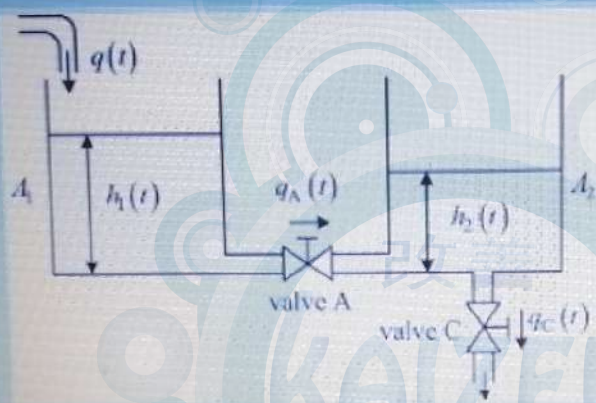
Clear my choice

Question 5

Not yet answered

Marked out of 1.00

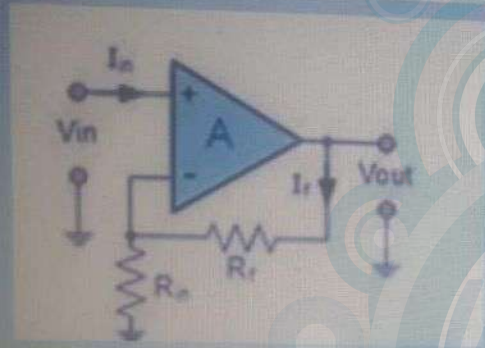
Flag question



One equation describing the system is

- a. $A_2 \frac{dh_2}{dt} = Q_A - Q_C$
- b. $Q_A - Q_C = A_2 \frac{dh_1}{dt}$
- c. $H_1 / Q_A = R_A$
- d. $Q - Q_A = A_2 \frac{dh_2}{dt}$
- e. $(H_1 - H_2) / R_A = Q_B$

Question 2
Not answered
Marked out of 1
Log out

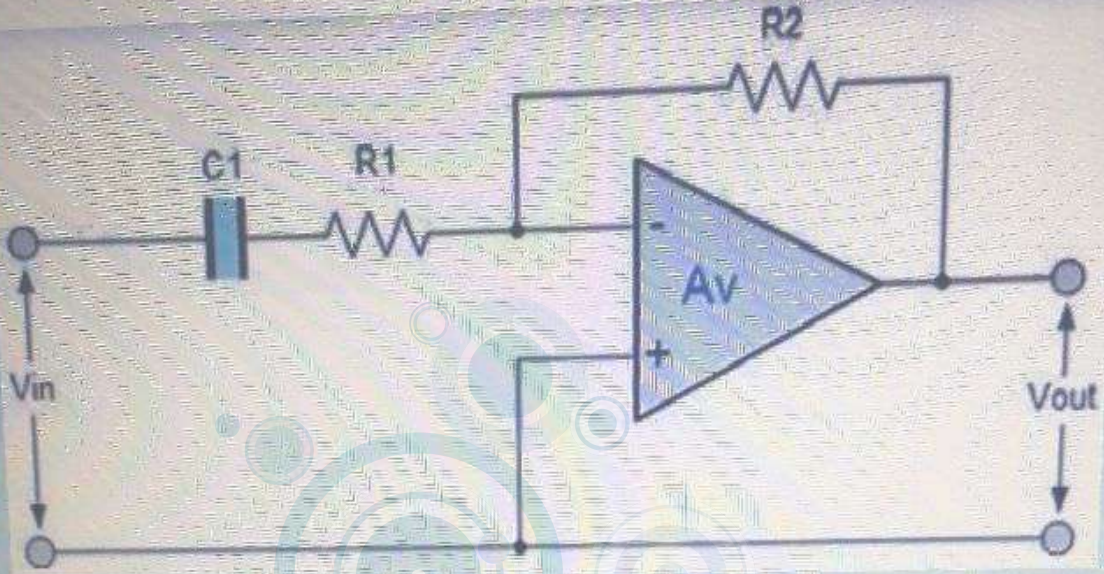


If $R_f=1$ and $R_{in}=2$ then $V_{in}=1$ then $V_{out} =$

- Select one:
- a. 1.5
 - b. -2
 - c. 0.5
 - d. -1.5

Clear my choice



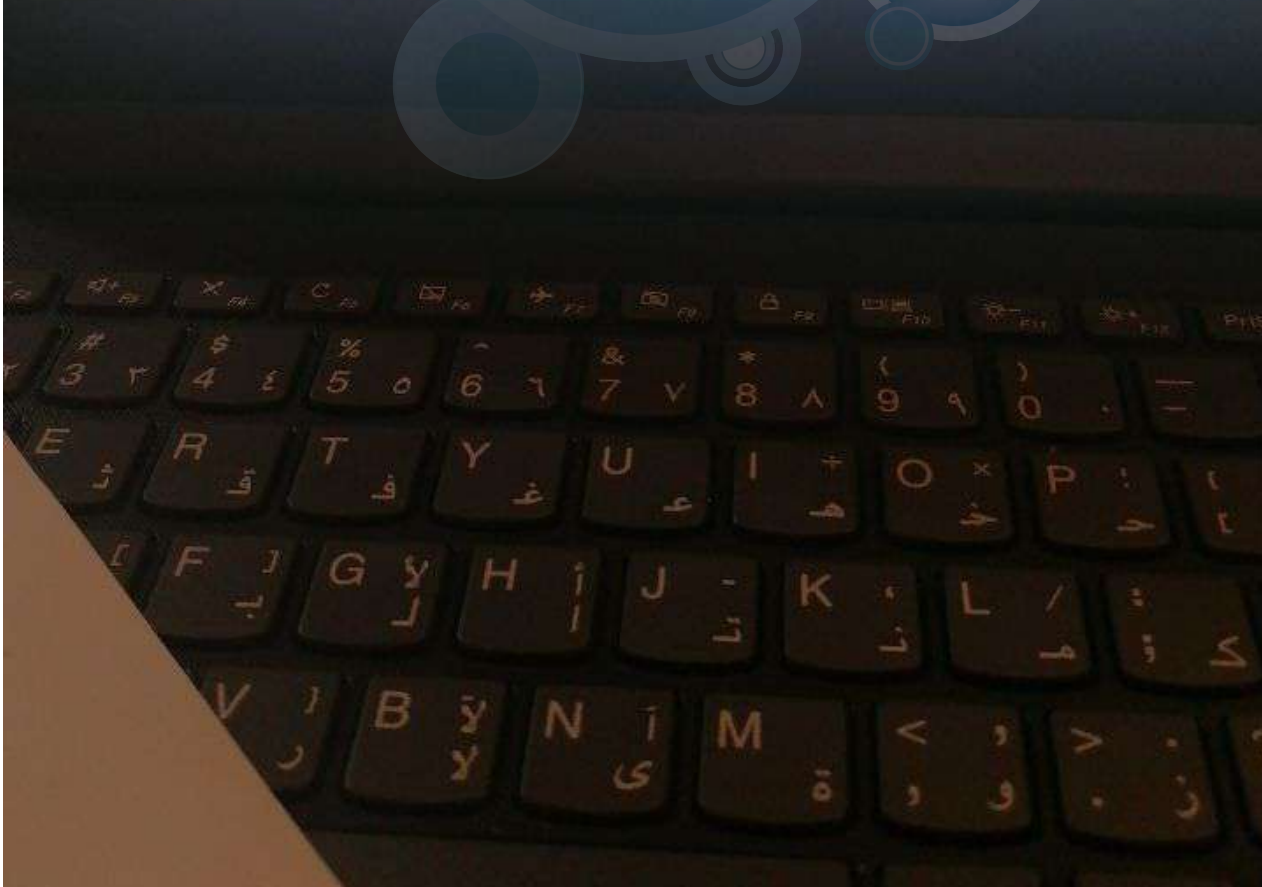


The transfer function V_{out}/V_{in} is:

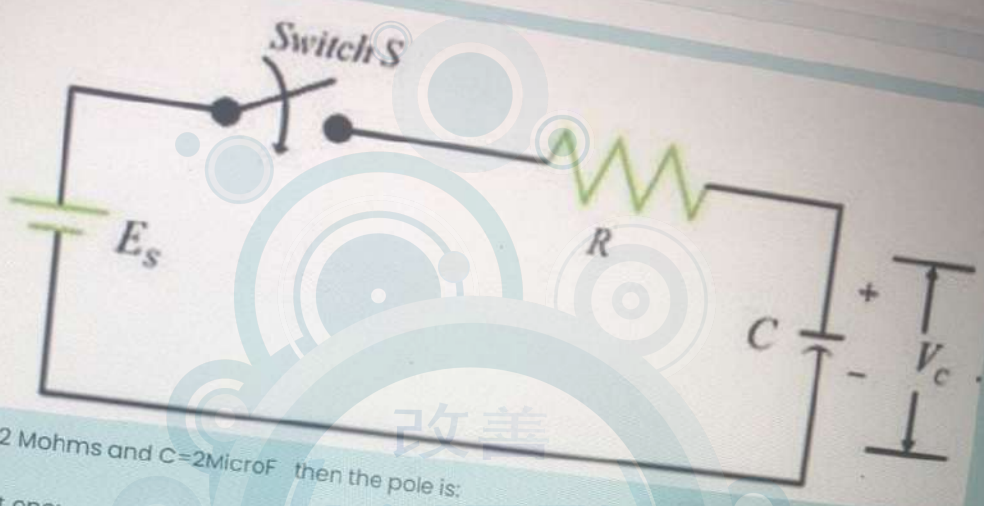
- Select one:
- a. $-R1R2/(R1R2Cs+1)$
 - b. $-R2Cs/(R1Cs+1)$
 - c. $-R2/(R1Cs+1)$
 - d. $-R1/(R2Cs+1)$

Clear my choice

...ere to search



Not yet answered
Marked out of 1.00
Flag question



if $R = 2 \text{ Mohms}$ and $C = 2 \text{ MicroF}$ then the pole is:

- Select one:
- a. -0.25
 - b. -0.5
 - c. -2
 - d. -4
 - e. -1

Clear my choice

Type here to search



INDUSTRIAL CONTROL SYSTEMS

My courses

INDUSTRIAL CONTROL SYSTEMS

General

inverse laplace of $1/(2s+4)$

- a. $\exp(-2t)$
- b. $2\exp(-2t)$
- c. $2\exp(-t)$
- d. $2\exp(-t)/3$
- e. $\exp(-2t)/2$

Clear my choice

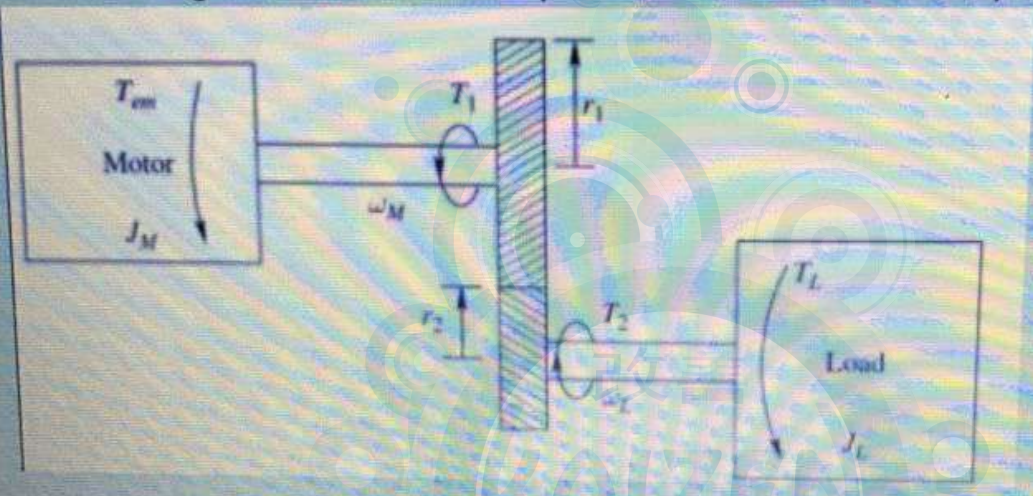
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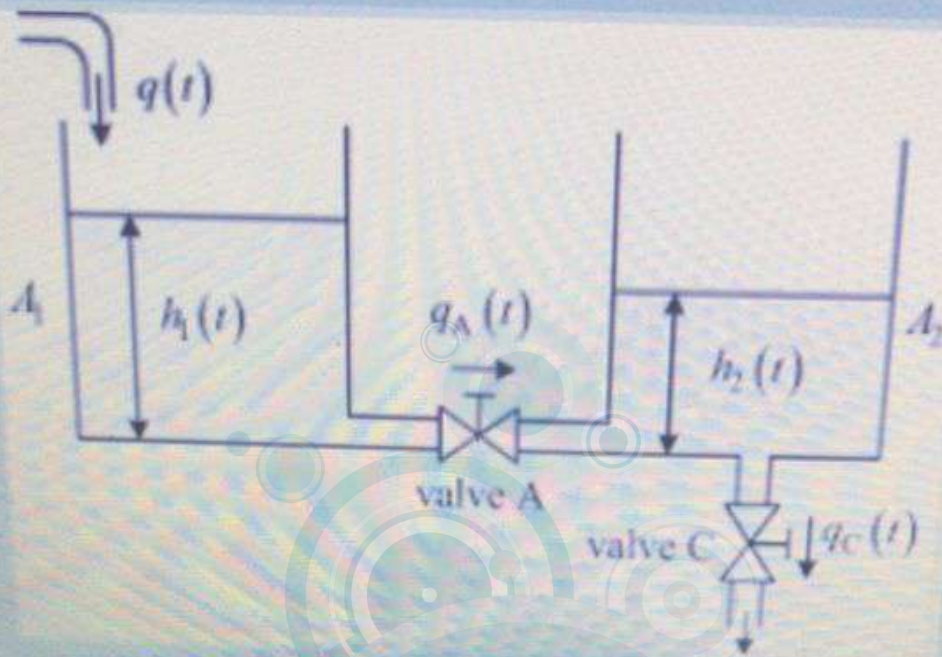


A system with motor gear $N=5$; load gear $N=15$; Motor inertia = 1 Kg.m^2 ; Load inertia = 9 Kg.m^2 ; What is the equivalent inertia as seen by the motor



- a. 4
- b. 1
- c. 5
- d. 2
- e. 3

gerge



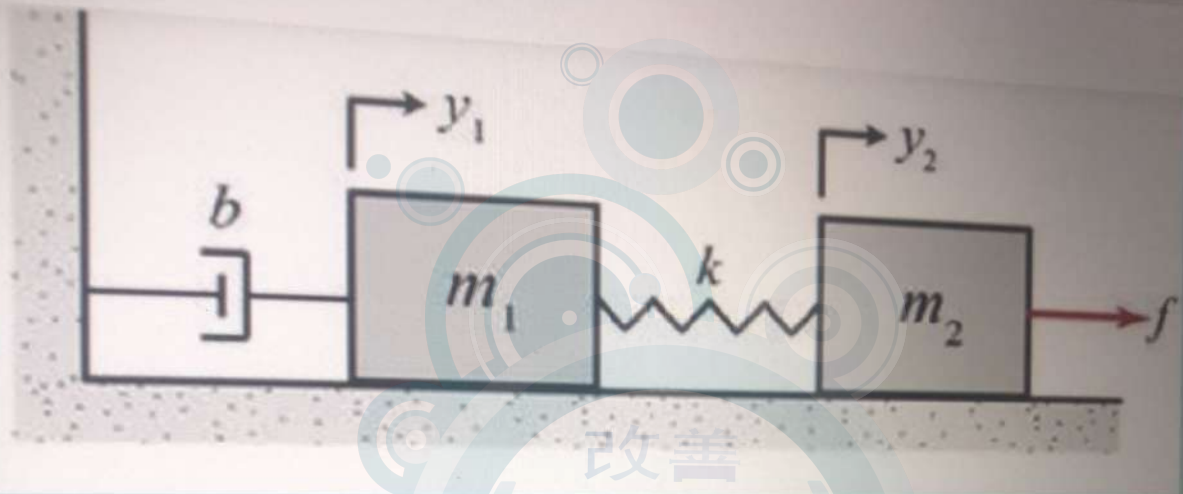
One equation describing the system is

- a. $(h_1 - h_2) / R_A = Q_B$
- b. $h_1 / Q_A = R_A$
- c. $A_1 dh_1 / dt = Q - Q_A$
- d. $Q - Q_A = A_2 dh_2 / dt$
- e. $Q_A - Q_C = A_2 dh_1 / dt$



1	2	3	4
9	10	11	12
17	18	19	20

Finish attempt...
Time left 0:58:38



One equation describing the system is $Y_1(s)(A_1s^2 + A_2s + A_3) + A_4Y_2 = 0$ then A_1 is

- Select one:
- a. m_2
 - b. Kb
 - c. m_1
 - d. f
 - e. b

Clear my choice



Search bar text: e to search



Question 17

Not yet answered

Marked out of 1.00

Flag question

$G(s) = 1/(s^2 + 7s + 5)$ is system

- a. an overdamped
- b. an underdamped
- c. undamped
- d. critically damped
- e. none



Next

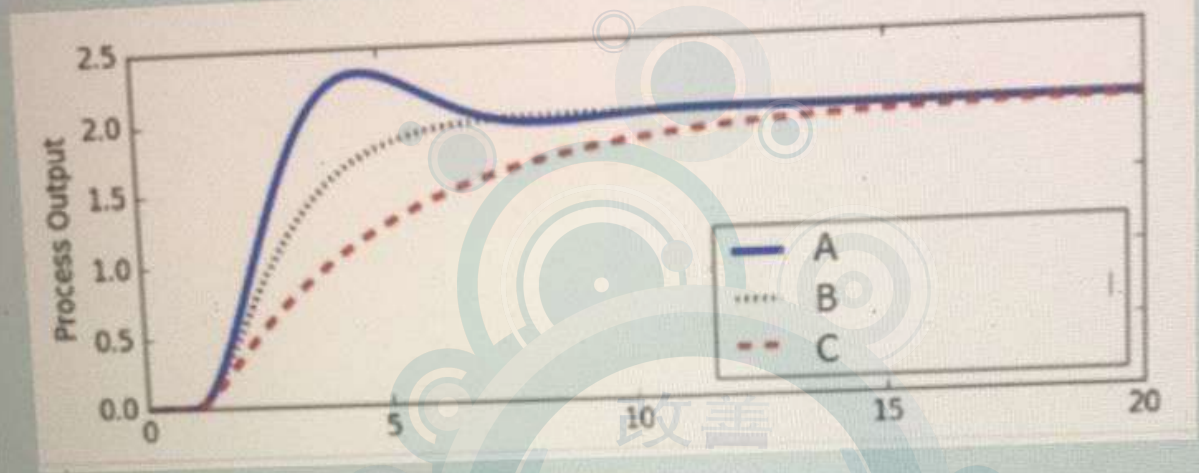
The settling time for first order system $G(s) = 1/(0.125s+1)$ to a step input is

- e. 0.5
- d. 2
- c. 4
- b. 9
- a. 8

Clear my choice

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The response in Figure C is



- a. underdamped
- b. overdamped
- c. crically damped
- d. undamped
- e. none

Clear my choice

INDUSTRIAL CONTROL SYSTEMS

My courses

INDUSTRIAL CONTROL SYSTEMS

General

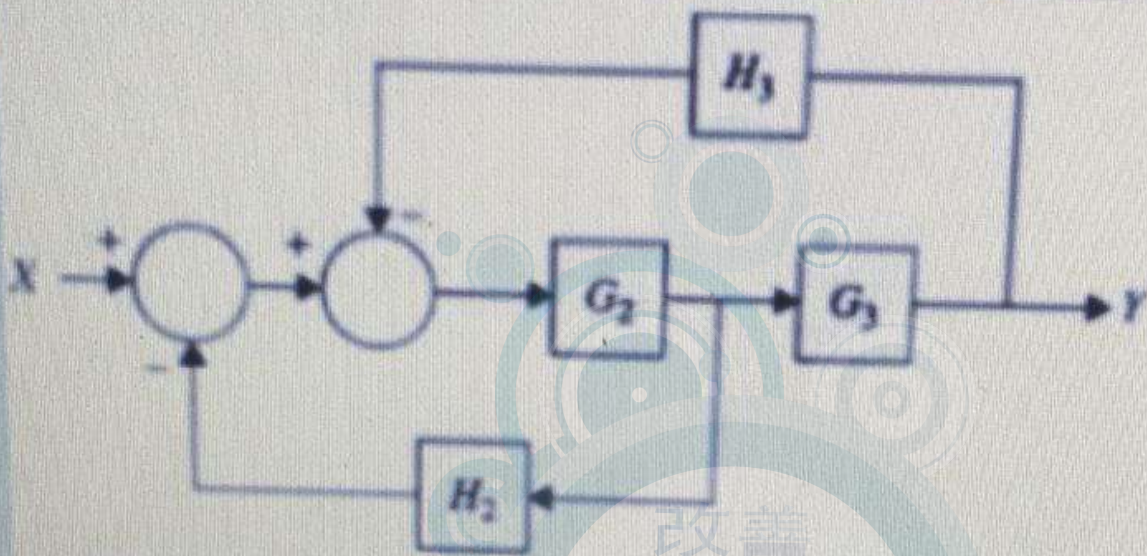
MID exam 2020 first semester

the final value for $1/(s(s^2+15s+0.25))$

- a. 1/2
- b. 2
- c. 4
- d. 9
- e. 1/9

Clear my choice





$Y(s)/X(s) =$

- a. $G_1G_2G_3/(1+G_2H_2+G_2G_3H_3)$
- b. $G_2G_3(1+G_2H_2)/(1+G_2H_2+G_2G_3H_3)$
- c. $G_2G_3/(1+G_2H_2+G_2G_3H_3)$
- d. $G_2G_3(1+G_2H_2)/(1+G_2H_2+G_2G_3H_3)$
- e. $G_2G_3(1+G_2H_2)/(1+G_2H_2+G_2G_3H_3+G_2G_3H_2H_3)$



Question 8

Not yet answered

Marked out of 1.00

Flag question

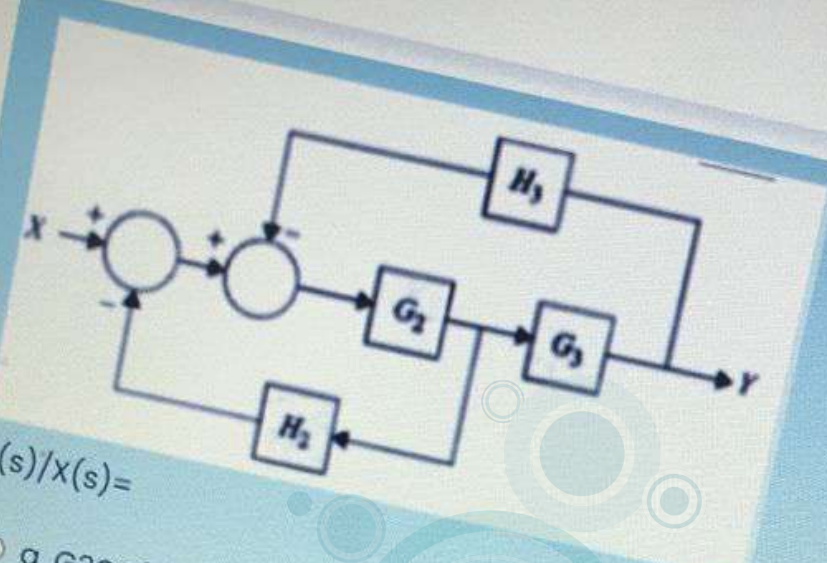


The under damped system is located in

- a. 2
- b. 3
- c. none
- d. 1
- e. 4

Clear my choice

Question 11
 Not yet answered
 Marked out of 10
 Flag question

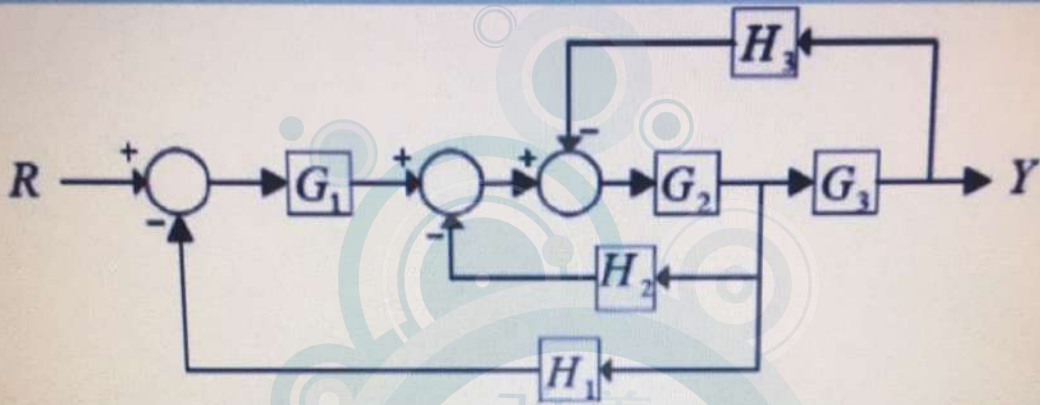


$Y(s)/X(s) =$

- a. $G_2G_3(1+G_2H_2)/(1+G_2H_2+G_2G_3H_3+G_2G_3H_2H_3)$
- b. $G_2G_3(1+G_2H_2)/(1+G_2H_2+G_2G_3H_3)$
- c. $G_1G_2G_3/(1+G_2H_2+G_2G_3H_3)$
- d. $G_2G_3(1+G_2H_2)/(1+G_2H_2+G_2G_3H_3)$
- e. $G_2G_3/(1+G_2H_2+G_2G_3H_3)$

Clear my choice





$Y(s)/R(s) =$

- a. $G_1G_2/(1+G_1G_2H_1+G_2H_2+G_2G_3H_3)$
- b. $G_1G_2G_3/(1+G_1G_2H_1+G_2H_2+G_2G_3H_3)$
- c. $G_1G_2G_3(1+G_2H_2)/(1+G_1G_2H_1+G_2H_2+G_2G_3H_3)$
- d. $G_1G_2G_3/(1+G_1G_2H_1+G_2H_2+G_2H_3)$
- e. $G_1G_2G_3(1+G_2H_2)/(1+G_1G_2H_1+G_2G_3H_3)$

Clear my choice

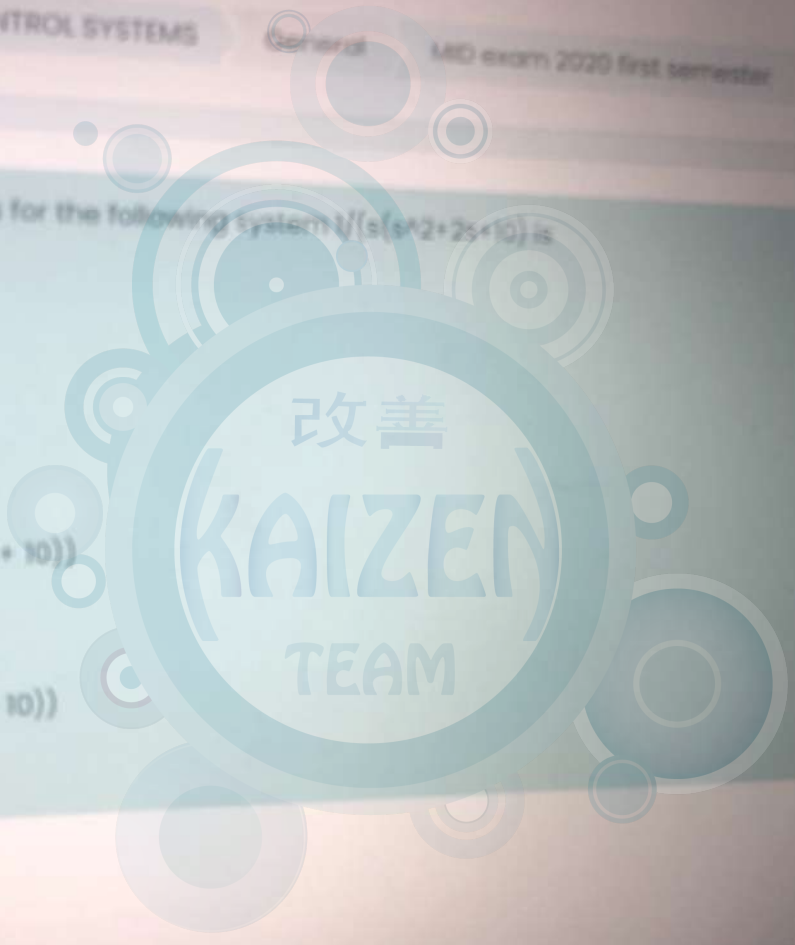
Next page

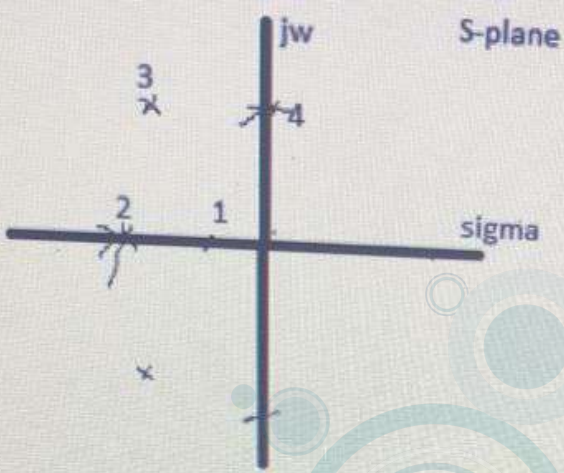
one of the partial fractions for the following system $1/(s(s^2+2s+10))$ is

- a. $(s-4)/(s^2+2s+10)$
- b. $10/s$
- c. $-(s+2)/(10*(s+2s+10))$
- d. $1/9s$
- e. $(s-2)/(10*(s+2s+10))$

Clear my choice

Next page





The undamped system is located in

- a. 2
- b. 4
- c. 1
- d. 3
- e. none

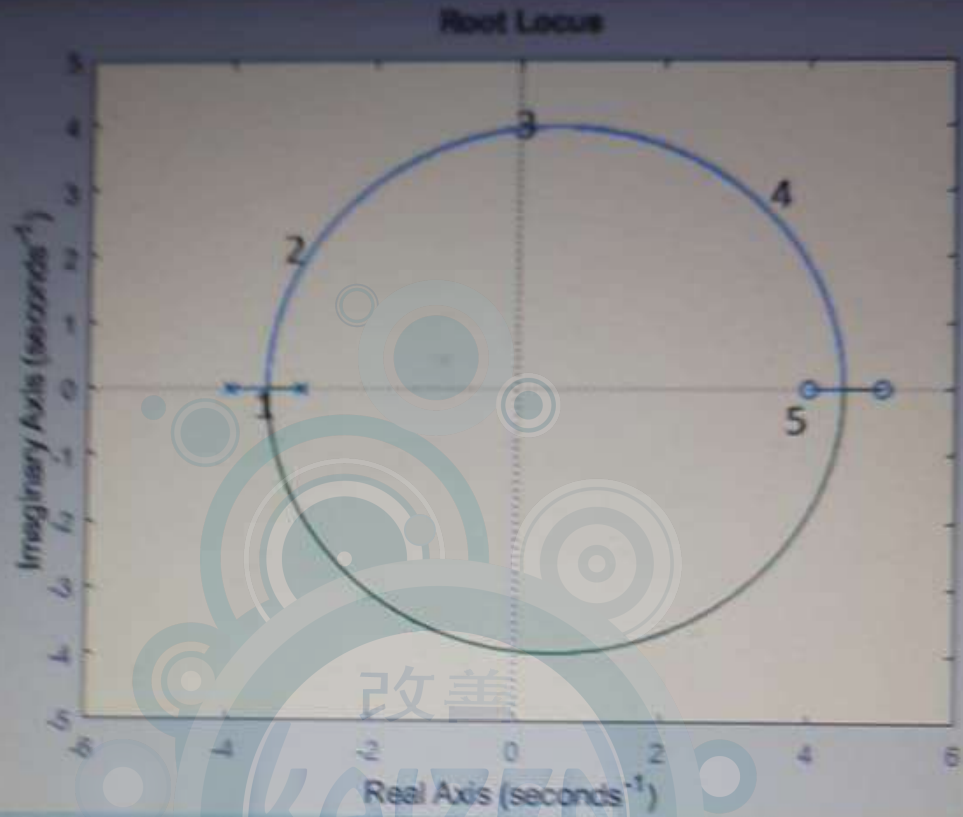




The steady state error for input $=5u(t)$ is

- a. 0.001
- b. 0.1
- c. 0
- d. 0.2
- e. 0.05

[Clear my choice](#)



The root locus will show under-damped behaviour at

- a. 4
- b. 2
- c. 5
- d. 1
- e. 3

Clear my choice



INDUSTRIAL CONTROL SYSTEMS

Home

My courses

INDUSTRIAL CONTROL SYSTEMS

General

Root locus rou

Question 1

Not yet answered

Marked out of 1.00

Flag question

s^4	1	3	1
s^3	3	2	0
s^2	$7/3$	1	
s^1	A		
s^0	1		

A is

- a. 2
- b. $-5/7$
- c. $5/7$
- d. $4/7$
- e. $-4/7$

Clear my choice

Type here to search



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The steady state error for input $=5u(t)$ is

- a. 0.05
- b. 0.1
- c. 0.001
- d. 0
- e. 0.2

Clear my choice



Search



DELL



$$s^3 + s^2 + 2s + K = 0$$

what is the value for K for stability

- a. $0 < k < 3$
- b. $0 < k < 2.5$
- c. $0 < k < 1.5$
- d. $0 < k < 1$
- e. $0 < K < 2$

Clear my choice



$$G(s) = \frac{(s+z_1)(s+z_2)}{s^n(s+p_1)(s+p_2)}$$

if G is the open loop function and unity feedback is used

if $n=1$; and input $A=1/s$ input $B=1/s^2$ input $C=1/s^3$

then for which functions the steady state is finite (constant) not equal to zero

- a. B and C
- b. B
- c. C
- d. A and B and C
- e. A

[Clear my choice](#)

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INDUSTRIAL CONTROL SYSTEMS

General

Root locus routh hu

$$KG(s)H(s) = \frac{K}{s(s+1)}$$

for the root locus what is k if $s=-0.5$

- a. 0.21
- b. 0.09
- c. 0.25
- d. $-0.5 + j$

Clear my choice

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rch



$$KG(s)H(s) = \frac{K}{s(s+1)}$$

for the root locus what is k if $s = -0.7$

- a. 0.21
- b. 0.09
- c. 0.25
- d. $-0.5 + j$

[Clear my choice](#)

Question 1

Not yet
answered

Marked out of
1.00

Flag
question

Question 5
Not yet answered
Marked out of
1.00
Flag question

$$KG(s)H(s) = \frac{K}{s(s+1)}$$

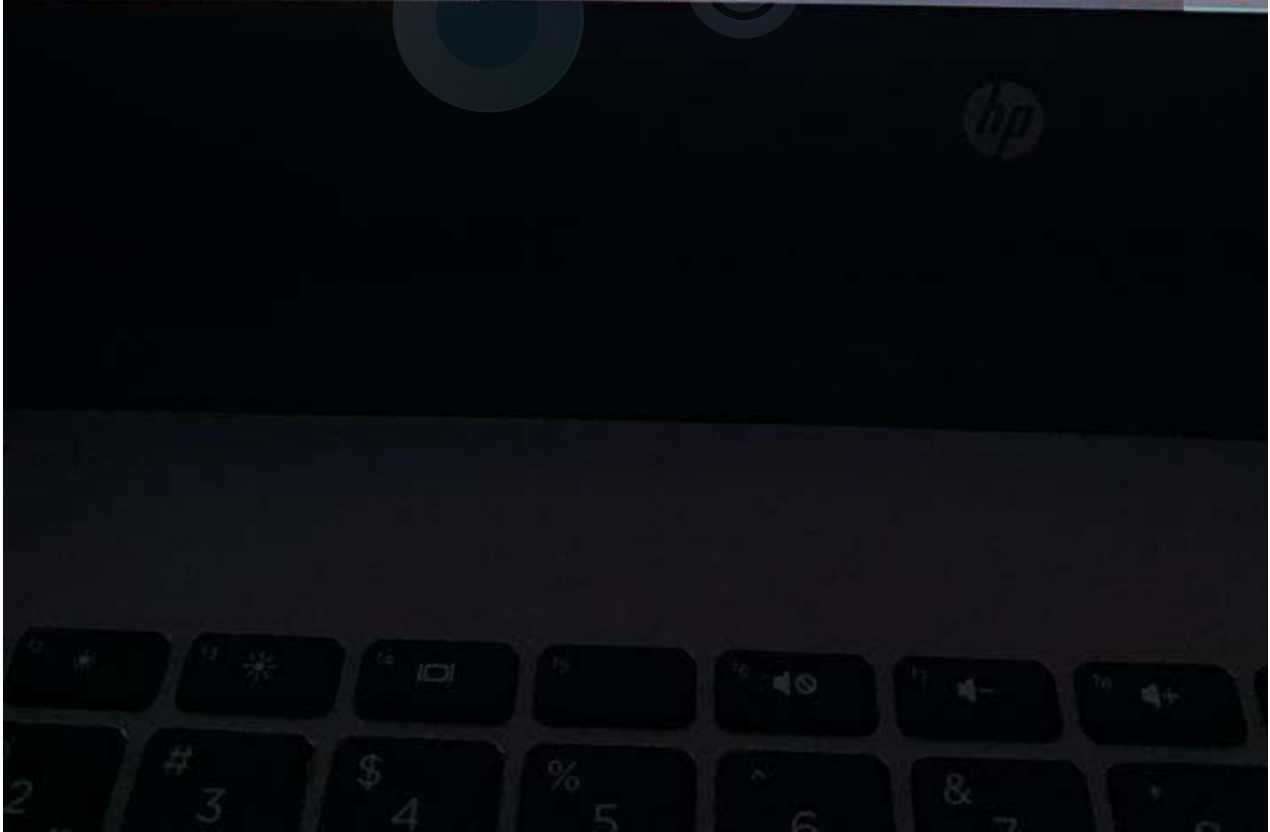
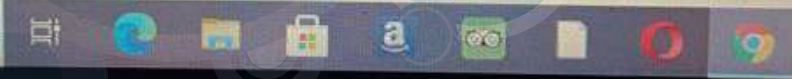
for the root locus what is k if $s = -0.7$

- a. $-0.5 + j$
- b. 0.09
- c. 0.25
- d. 0.21

[Clear my choice](#)



here to search





Question 6
Not yet answered
Marked out of 1.00
Flag question

s^4	1	3	2
s^3	3	2	0
s^2	7/3	2	
s^1	A		
s^0	2		

A is for the routh hurwitz

- a. -4/7
- b. 2
- c. 5/7
- d. -5/7
- e. 4/7



Question 6

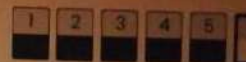
Not yet answered

Marked out of 1.00

Flag question



Quiz navigation



Finish attempt ...

Time left 0:00:57

The steady state error for input $= 5tu(t)$ is

- a. 0.05
- b. 0
- c. 0.001
- d. 0.2
- e. 0.1

Clear my choice

Question 2

Not yet answered

Marked out of 1.00

Flag question

$$s^3 + s^2 + 2s + K = 0$$

what is the value for K for stability

- a. $0 < k < 2.5$
- b. $0 < K < 2$
- c. $0 < k < 1$
- d. $0 < k < 3$
- e. $0 < k < 1.5$

[Clear my choice](#)



Root locus routh hurwitz

Question 1

Not yet answered

Marked out of 1.00

Flag question

$$s^4 + 3s^3 + 3s^2 + 2s + K$$

what is the value for K for stability

- a. $0 < k < 5/12$
- b. $0 < k < 4/27$
- c. $0 < k < 7/19$
- d. $0 < K < 14/9$
- e. $0 < k < 12/7$

Question 6

Not yet answered

Marked out of 1.00

Flag question



The steady state error for input $= 5tu(t)$ is:

- a. 0.05
- b. 0
- c. 0.001
- d. 0.2
- e. 0.1

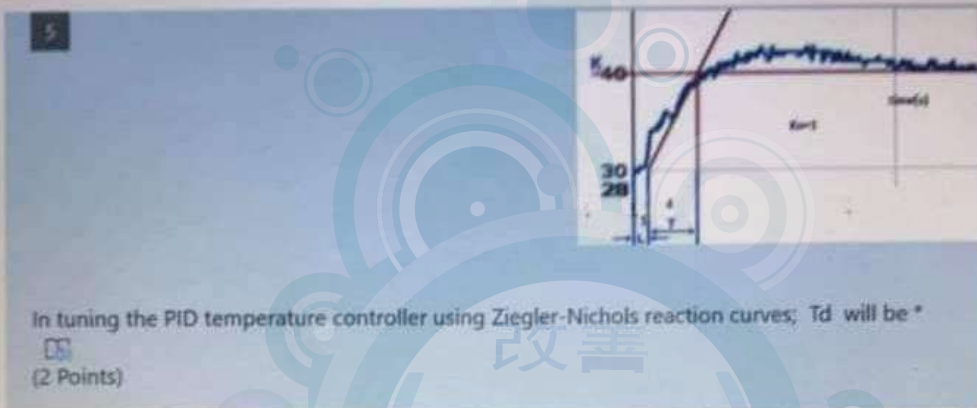
Clear my choice

Quiz navigation

- 1
- 2
- 3
- 4
- 5
- 6

Finish attempt ...

Time left 0:00:57



In tuning the PID temperature controller using Ziegler-Nichols reaction curves; T_d will be *

(2 Points)

- 6
- 5
- 0.5
- 10
- 2

6

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matlab commands: `rlocus(zpk([-1],[-3 0],1))` is related to the

- a. s/s^3+s
- b. $-s/(-3s)$
- c. $(s-1)/(s(s-3))$
- d. $(s+1)/(s(s+3))$
- e. $-s$

Clear my choice

INDUSTRIAL CONTROL SYSTEMS

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My courses

INDUSTRIAL CONTROL SYSTEMS

General

Quiz matlab arduino

Question 3

Not yet answered

Marked out of 1.00

Flag question

`step(tf (conv([1 0],[1 2]), conv([1 0],[3 2 3])))` is related to the transfer function

- a. $(s^2+2s)/(3s^2 + 2s + 3)$
- b. $(s^2+2s)/(3s^3 + 2s^2 + 3s)$
- c. $(s^2)/(3s^3 + s^2 + 3s)$
- d. $(s^2+2s)/(s^3 + 2s^2 + 3s)$
- e. $(s+2)/(s^2 + 2s + 3s)$

Clear my choice

Quiz nav

1 2

Finish att

Time left

Question 1

Not yet
answeredMarked out of
1.00Flag
question

```
void loop()  
{  
  val = digitalRead(BUTTON);  
  if (val == HIGH){  
    digitalWrite(LED, HIGH);  
  } else {  
    digitalWrite(LED, LOW);  
  }  
}
```

one of these options is not true

- a. The LED will shine if we press the button
- b. the loop program runs once
- c. Button is connected to one of the digil input/outputs
- d. the LED is an output
- e. the BUTTON is treated as input

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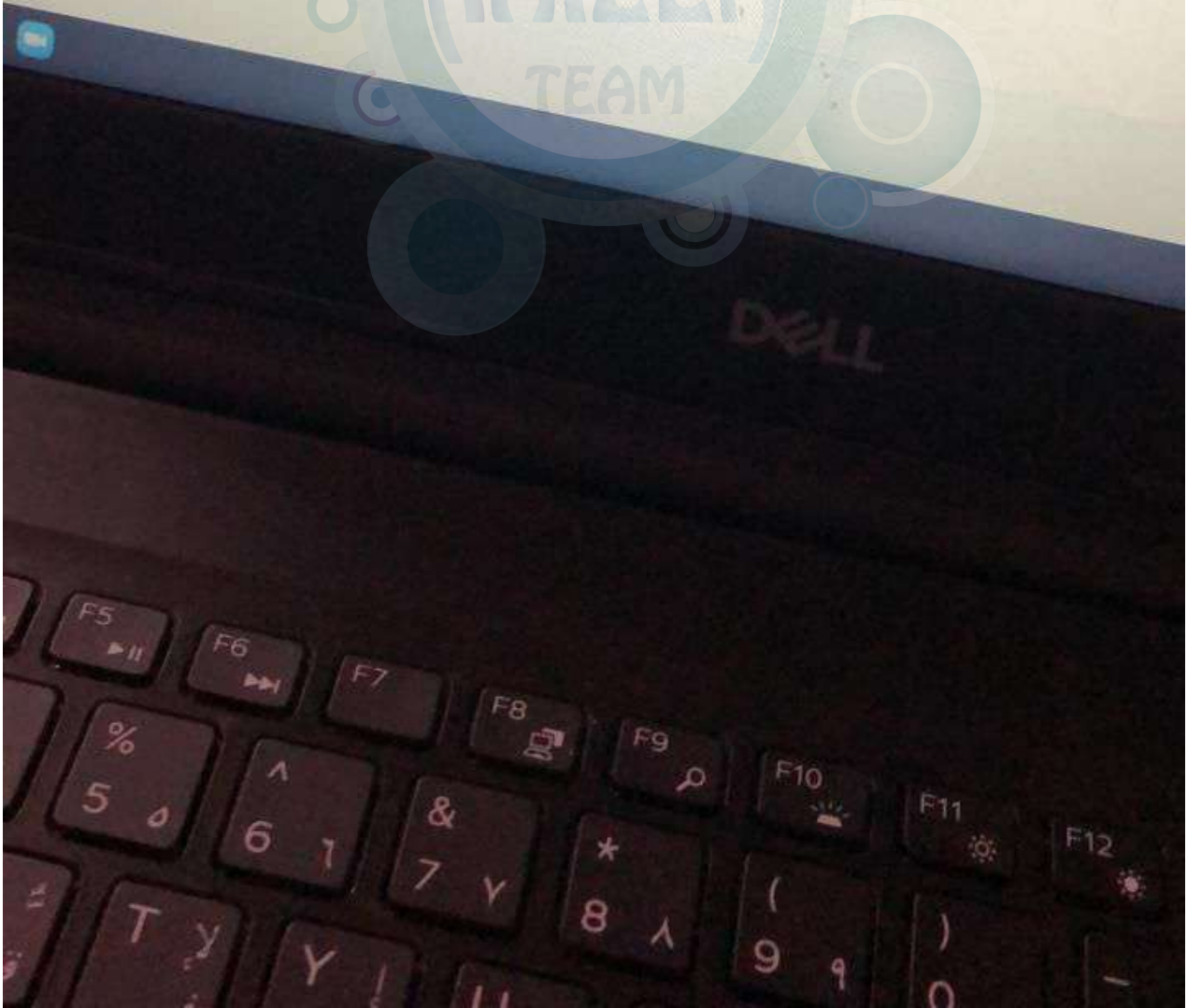
General

Quiz matlab ardui

matlab commands: `rlocus(zpk([-1],[-3 0],1))` is related to the transfer funcion

- a. $(s-1)/(s(s-3))$
- b. $-s$
- c. $(s+1)/(s(s+3))$
- d. $-s/(-3s)$
- e. s/s^3+s

Clear my choice



INDUSTRIAL CONTROL SYSTEMS

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General

Quiz matalb ardu

The arduino command "DigitalWrite" is for

- a. serial read the pin data
- b. write to a pin 5 or zero
- c. explore whether the pin is in input or output
- d. set the arduino pin to output or inut
- e. buffer the pin data

Clear my choice

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TEAM

DELL

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Question 3

Not yet answered

Marked out of 1.00

Flag question

step(tf (conv([1 0],[1 2]), conv([1 0],[3 2 3]))) is related transfer function

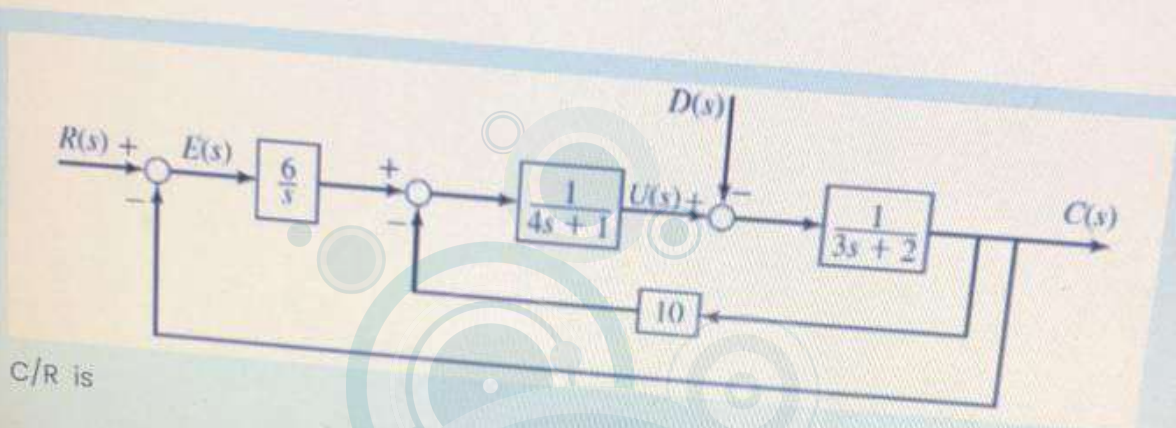
- a. $(s^2+2s)/(s^3 + 2s^2 + 3s)$
- b. $(s^2)/(3s^3 + s^2 + 3s)$
- c. $(s^2+2s)/(3s^3 + 2s^2 + 3s)$
- d. $(s+2)/(s^2 + 2s + 3s)$
- e. $(s^2+2s)/(3s^2 + 2s + 3)$

Quiz navigation



Finish attempt ...

Time left 0:03:36



C/R is

- a. $6 / (s(4s+1)(3s+2))$
- b. none of the above
- c. $6 / (s(4s+1)(3s+2) + 10s+6)$
- d. $-s(4s+1) / (s(4s+1)(3s+2) + 10s+6)$
- e. $-s(4s+1) / (s(4s+1)(3s+2))$



DELL



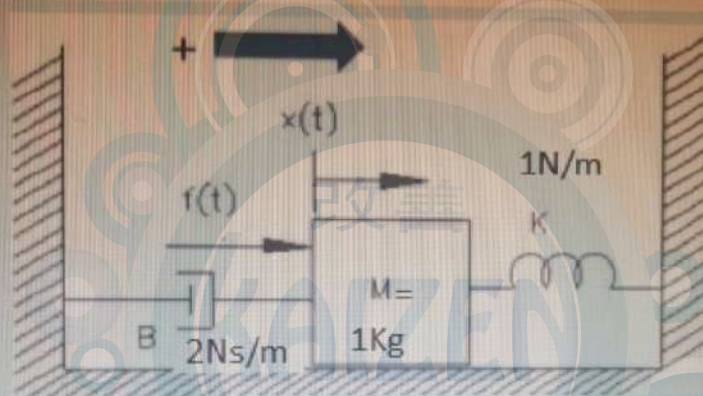
Question 3
Not yet answered
Marked out of 1.00
Flag question

Time left 0:55:06

Quiz navigation

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20				

Finish attempt...



If $F(s) = 3/s$ $x(t \rightarrow \infty) =$

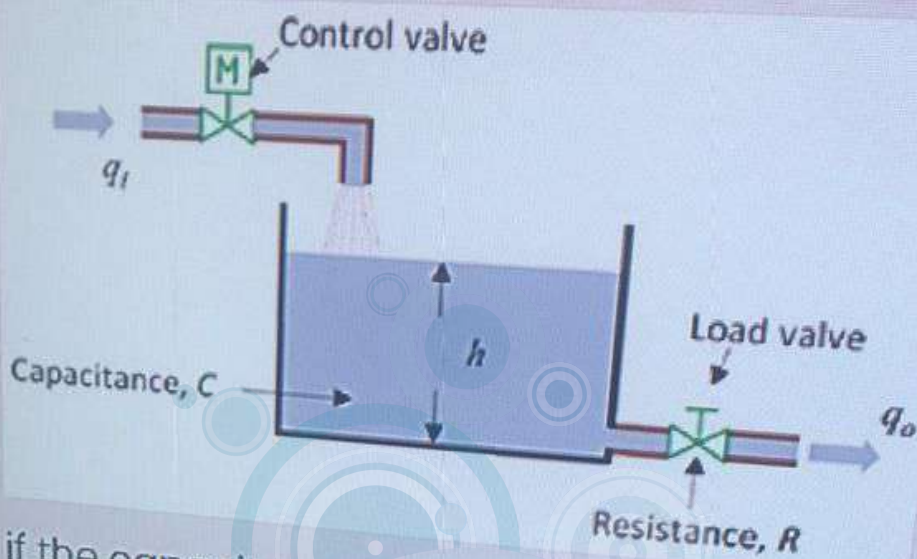
- a. 2.5
- b. 1
- c. 5
- d. 2
- e. 3

Type here to search



ENG 1/1

Time left 0:51:56

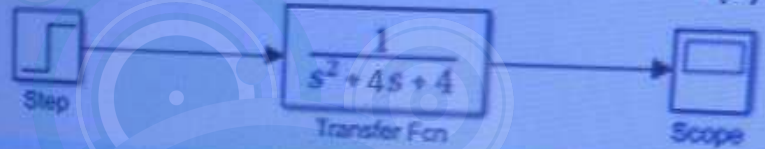


if the capacitance is 0.5 m^2 and the resistance $R = 0.1 \text{ m}^2 \cdot \text{s} / (\text{m}^3)$; $q_i = 0.05 / \text{s}$; $0.05 \text{ m}^3 / \text{s}$ a step increase
The time the height is expected to reach settling (settling time)

- a. 0.05
- b. 0.2
- c. 0.15
- d. 0.1
- e. 0.3

Clear my choice

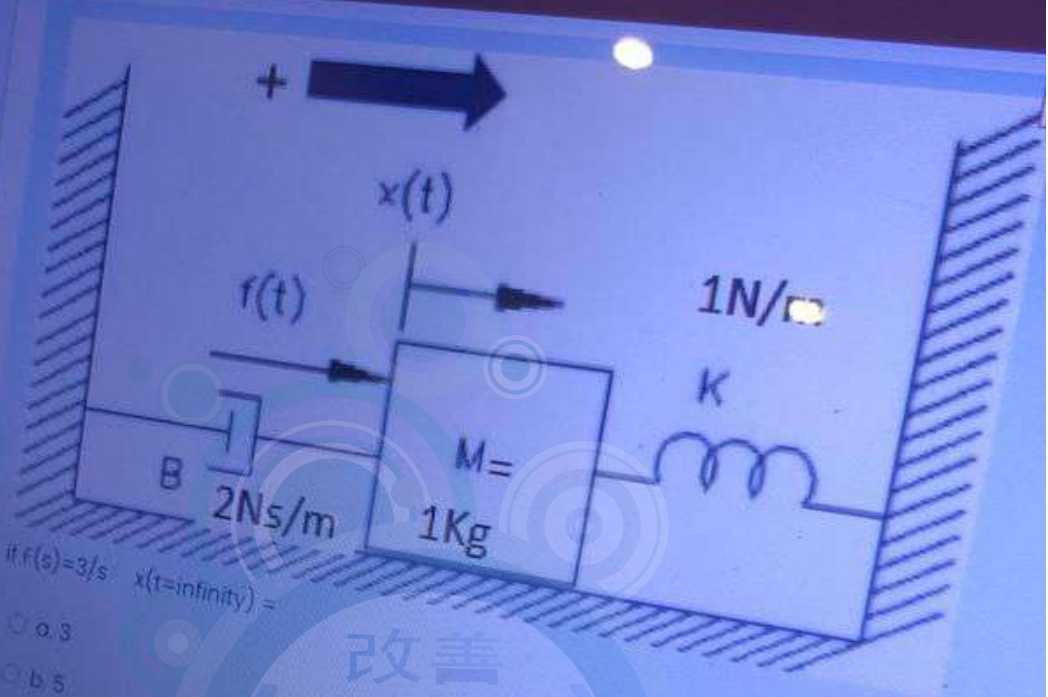
Unit step 1/s



y(t) is in this case:

- 改善
- a. $1/4 - (t \cdot \exp(-t))/4 - \exp(-2t)/4$
 - b. $1/4 - (t \cdot \exp(-2t))/2 - \exp(-2t)/4$
 - c. $1/4 - (t \cdot \exp(-2t))/4 - \exp(-2t)/4$
 - d. $t \cdot \exp(-2t)$
 - e. $1/4 - (t \cdot \exp(-2t))/4 - \exp(-t)/4$

Question 2
Not yet answered
Marked out of 1.00
Flag question



if $f(s) = 3/s$ $x(t \rightarrow \infty) =$

- a. 3
- b. 5
- c. 25
- d. 1
- e. 2



lenovo



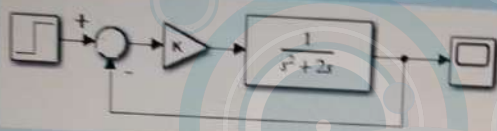
Question 1

Not yet answered

Marked out of 1.00

Flag question

Time left 0:52:36



Select K to achieve a natural frequency of 5
(hint no need to draw root locus)

- a. 25
- b. 16
- c. 5
- d. 10
- e. 14

Next page

Quiz

1	1
7	8
13	14
19	20

Finish atte

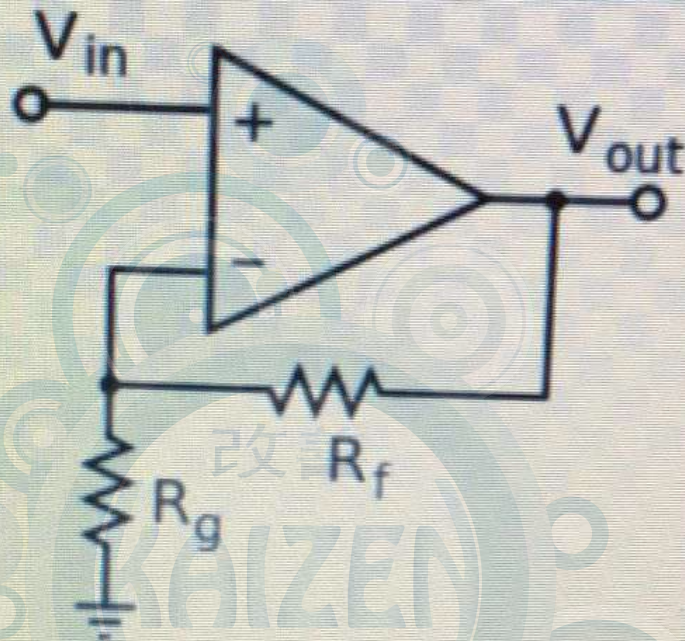
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Question 1

Not yet answered

Marked out of 1.00

Flag question



if $V_{in} = 2$ Volt, $R_f = 2$ ohm and $R_g = 5$ ohm then $V_{out} =$

- a. 1.8
- b. 4.8
- c. 2.8
- d. 2.3
- e. 2.5

Clear my choice

Type here to search



Time left

```
const int LED = 13; // LED connected to pin 13
// const will not change in prog.
void setup() {
  // put your setup code here, to run once:
  pinMode(LED, OUTPUT);
}

void loop() {
  // put your main code here, to run repeatedly:
  morse_s();
  morse_s();
  morse_o();
  wordspace();
}

void blink(int ontime, int offtime)
{
  // turns on LED (externally defined) for ontime ms
  // then off for offtime ms before returning
  digitalWrite(LED, HIGH);
  delay(ontime);
  digitalWrite(LED, LOW);
  delay(offtime);
}

void dot()
{ blink(200,200); }
void dash()
{ blink(1200,200); }
void letterspace()
{ delay(400); }
void wordspace()
{ delay(800); }
void morse_s()
{ dot(); dot(); dot(); letterspace(); }
void morse_o()
{ dash(); dash(); dash(); letterspace(); }
```

for the above arduino code one of these statements is not true

- a. for each loop; the blink function is executed 9 times
- b. for each loop the letterspace is executed 3 times
- c. for each loop; the dash function is executed 9 times
- d. for each loop the dot() function executed 6 times



MacBook Air



INDUSTRIAL CONTROL SYSTEMS

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Final exam

Time left 0:37:57

Question 3
Not yet answered
Marked out of 1.00
Flag question

laplace inverse of $1/(s^2+2s+6)$ is

- a. $(5^{1/2} \cdot \exp(-t) \cdot \sin(5^{1/2} \cdot t)) / 5$
- b. $(5 \cdot \exp(-2t) \cdot \sin(5 \cdot t)) / 5$
- c. $(5 \cdot \exp(-t) \cdot \sin(5^{1/2} \cdot t)) / 5$
- d. $(5 \cdot \exp(-2t) \cdot \sin(5^{1/2} \cdot t)) / 5^{1/2}$
- e. $(5 \cdot \exp(-2t) \cdot \sin(5^{1/2} \cdot t)) / 5$

Clear my choice

Next page

Quiz navigation

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19	20	

Finish attempt

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odle/mod/quiz/attempt.php?attempt=415513&cmid=280535&page=4

Symbol	Name	Unit
R_a	Armature resistance	Ω
L_a	Armature inductance	H
$i(t)$	Armature current	A
J	Moment of inertia	$\text{kg}\cdot\text{m}^2$
B	Viscous damping coefficient	Nm/rpm
K_t	Torque constant	Nm/A
$e(t)$	Input voltage to armature	V
$e_b(t)$	Counter-EMF	V
θ	Shaft angle	rad
ω	Angular speed	rad/s
$T(t)$	Motor mechanical torque	Nm
K_b	Counter-EMF constant	V/rpm

For an armature controlled DC motor the above table shows the units for the different parameters. Given $R_a=0.5$; L_a nearly 0; $J=0.03$; $B=0.05$; $K_t=0.1$; $K_b=0.01$; suddenly the input voltage was increased; then the settling time for the rotational speed is

- a. 1.75
- b. 2.15
- c. 1.53
- d. 2.3

earch



PROPERTIES OF ENG.MATERIALS LAB.

my courses

PROPERTIES OF ENG.MATERIALS LAB.

27 December - 2 January

LAB

Which of the following tests are not used for micro-hardness testing:

a. Brinell only

b. Knoop only

c. Vickers only

d. B and C

Clear my choice



rch



INDUSTRIAL CONTROL SYSTEMS

My courses

INDUSTRIAL CONTROL SYSTEMS

General

Final exam

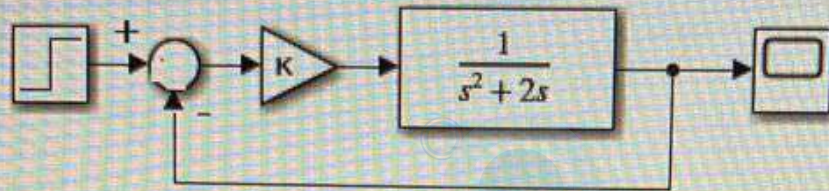
$\text{rlocus}(\text{tf}(\text{conv}([1\ 0],[1\ 1]),\text{conv}([1\ 0\ 0],[1\ 0\ 0\ 1])))$
is the root locus of which function

- a. $1. (s^2+2s+1)/(s^4+s^2+1)$
- b. $(s^2+1)/(s^4+s^2)$
- c. $(s^2+1)/(s^5+s^2)$
- d. $(s^2+2s)/(s^5+1)$
- e. $(s^2+s)/(s^5+s^2)$

Clear my choice

y in touch





Select K to achieve a natural frequency of 4
(hint no need to draw root locus)

- a. 14
- b. 25
- c. 10
- d. 5
- e. 16

Clear my choice





Time le

GH is shown in the above figure; the value K that intersects the imaginary axis if $H(s) = 1$.

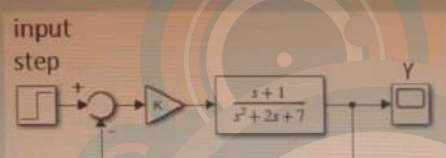
- a. 750
- b. 504
- c. 650
- d. 110
- e. 350

Search



Time left 019:02

Question 20
Not yet answered
Marked out of 1.00
Flag question



the steady state error for the above system is

- a. $5/(5+k)$
- b. 0
- c. $7/(7+k)$
- d. $1/(1+k)$
- e. $k/5$

Quiz navigation

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

Finish attempt ...



INDUSTRIAL CONTROL SYSTEMS

courses

INDUSTRIAL CONTROL SYSTEMS

General

Final exam

$$\frac{5s + 1}{s(s + 1)^2} = \frac{K1}{s + 1} + \frac{K2}{(s + 1)^2} + \frac{K3}{s}$$

in the above partial fraction; K1 is

- a. 4
- b. 2
- c. 0
- d. -1
- e. 1

Clear my choice

ppt

root_locus (3) (3).pptx
[Open file](#)

Arduino_lecture_su...pptx
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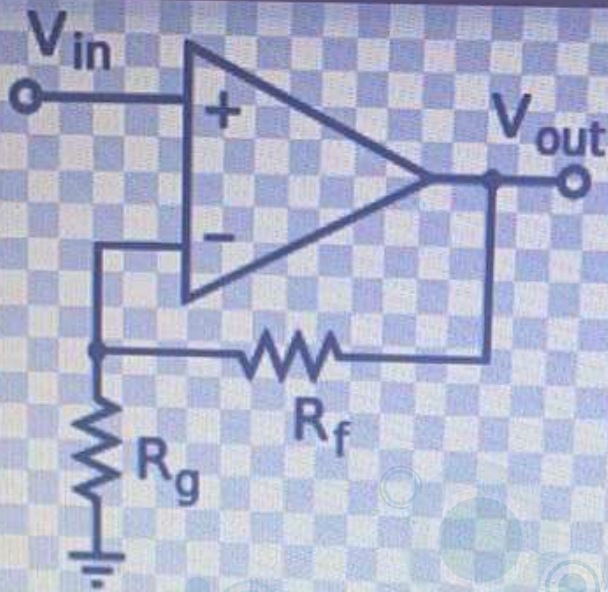
5

6

7

8

9



if $V_{in} = 2$ Volt, $R_f = 2$ ohm and $R_g = 5$ ohm then $V_{out} =$

- a. 4.8
- b. 1.8
- c. 2.8
- d. 2.3
- e. 2.5

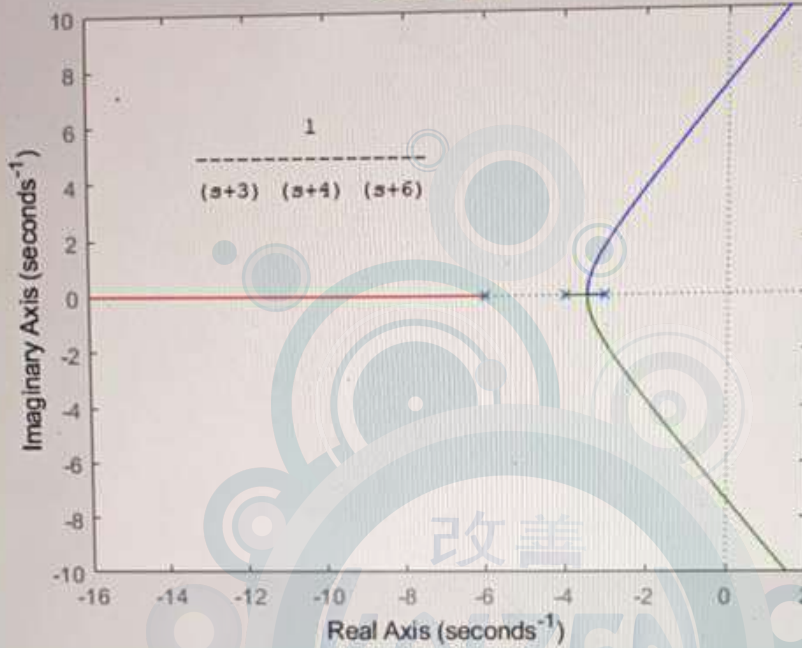
Clear my choice



earch



Root Locus



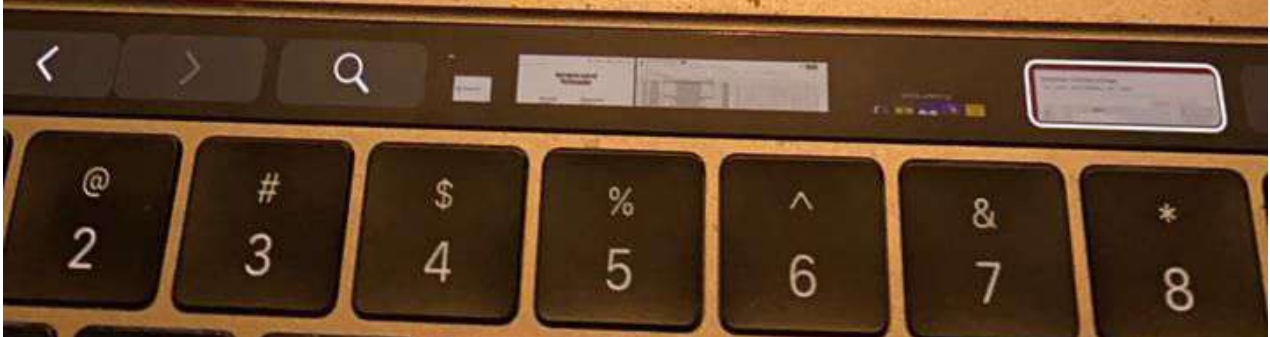
GH is shown in the above figure; the value K that intersects the imaginary axis if $H(s)=1$; (note use block diagram reduction for G and H) select closest number

- a. 630
- b. 110
- c. 500
- d. 750
- e. 350

Close my choice



MacBook Pro





Time l

Question 9
Not yet answered
Marked out of 1.00
Flag question

$$\frac{5s + 1}{s(s + 1)^2} = \frac{K1}{s + 1} + \frac{K2}{(s + 1)^2} + \frac{K3}{s}$$

In the above partial fraction; K1 is

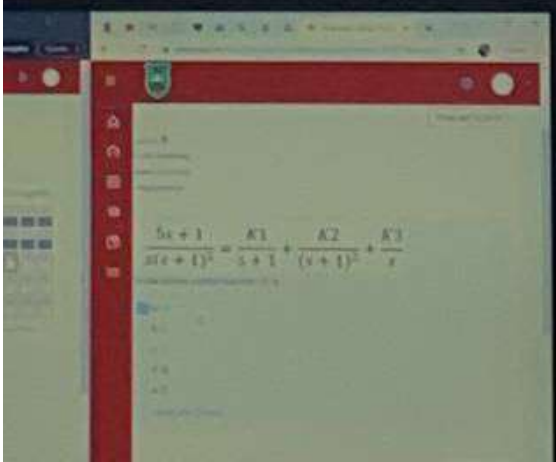
- a. -1
- b. 2
- c. 1
- d. 4
- e. 0

Clear my choice



Activate Windows
Go to Settings to activate Windows

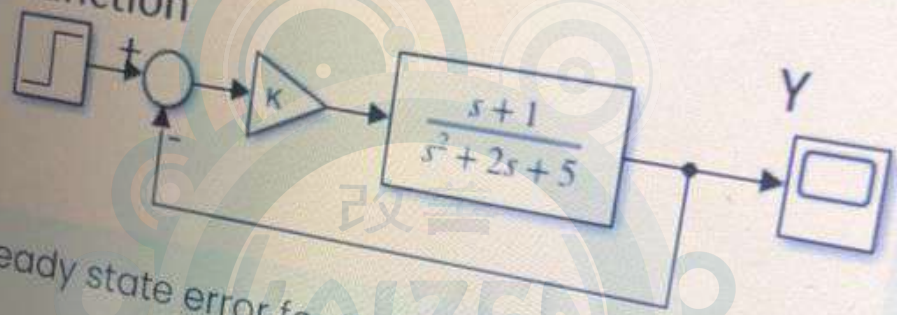
Quiz navigation



8

of

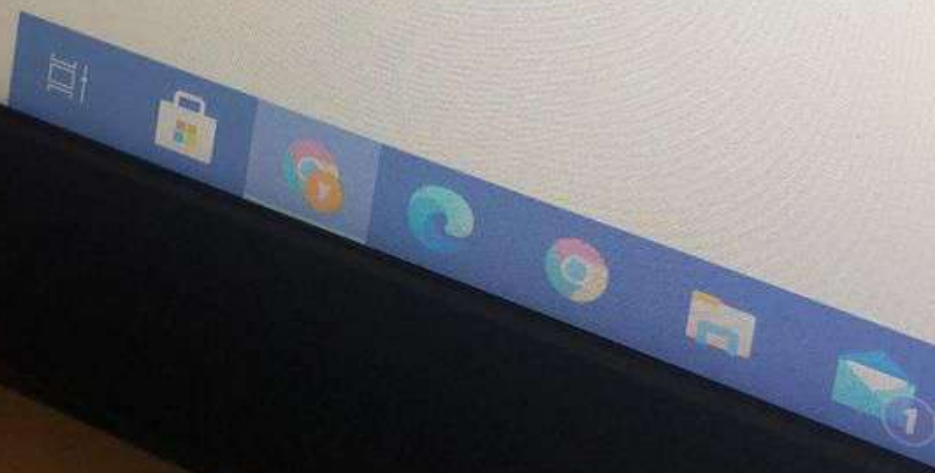
Input $R(t)$
step function

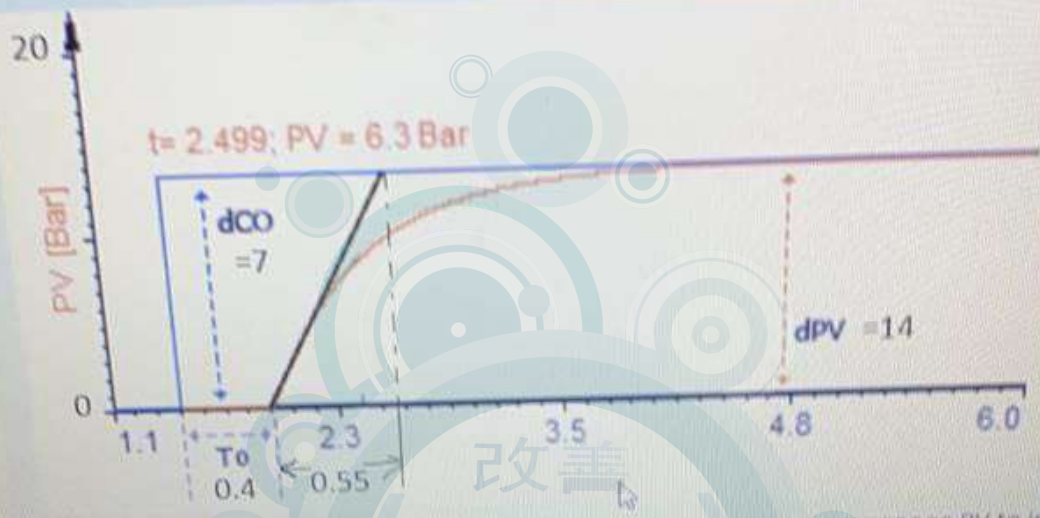


the steady state error for the above system is

- a. $5/(5+K)$
- b. 0
- c. $5/k$
- d. $1/(1+k)$
- e. $k/5$

Clear my choice

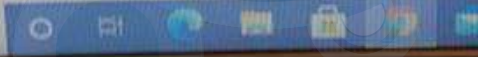




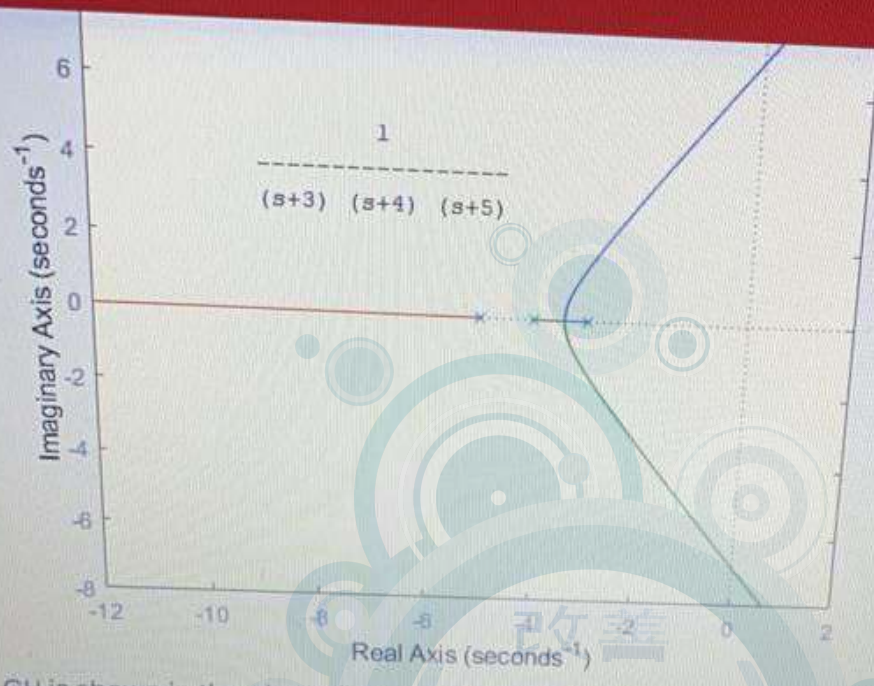
based on cohen-coon PID tuning ; the PID I_d for the above system response PV to input change CO is

- a. 0.14
- b. 0.33
- c. 0.13
- d. 0.61

ete to search



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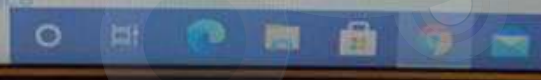


Time left (

GH is shown in the above figure; the value K that intersects the imaginary axis if $H(s)=1$;

- a. 750
- b. 504
- c. 650
- d. 110
- e. 350

Clear my choice





Time left 0:

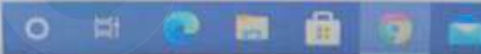
if the capacitance is 0.5 m^2 and the resistance $R = 0.1 \text{ m}^2/\text{s}$; $q_i = 0.05/\text{s}$; $0.05 \text{ m}^3/\text{s}$ a step increase

The time the height is expected to reach settling (settling time)

- a. 0.2
- b. 0.15
- c. 0.3
- d. 0.05
- e. 0.1

[Clear my choice](#)

here to search

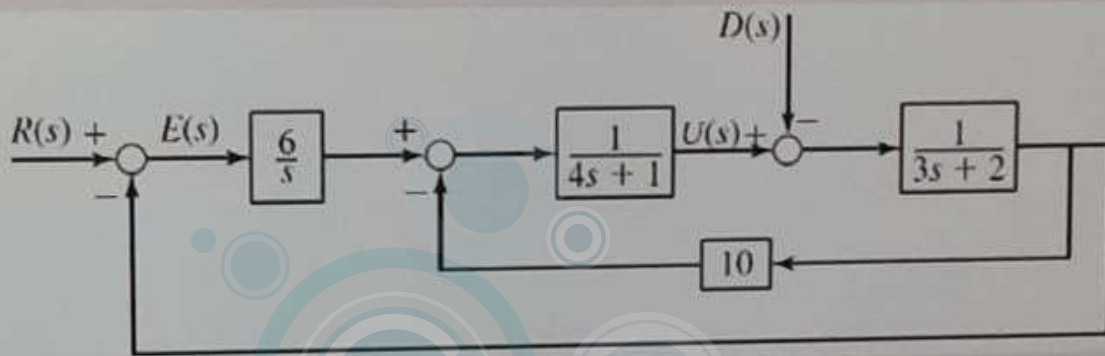




Marked out of 1.00

Time

Flag question



C/D is for this system

- a. $-s(4s+1) / (s(4s+1)(3s+2))$
- b. $-s(4s+1) / (s(4s+1)(3s+2) + 10s+6)$
- c. none of the above
- d. $6 / (s(4s+1)(3s+2))$
- e. $6 / (s(4s+1)(3s+2) + 10s+6)$

Clear my choice

Activate Window

Go to Settings to activate

Quiz navigation



$$\frac{1}{s+10}$$

The Time constant for the above system

- a. 0.3
- b. 0.1
- c. 0.4
- d. 0.2
- e. 0.5

Clear my choice



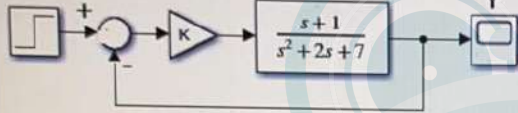
Question 8

Not yet answered

Marked out of 1.00

Flag question

input step



the steady state error for the above system is

- a. $5/(5+k)$
- b. 0
- c. $7/(7+k)$

- d. $1/(1+k)$
- e. $k/5$

time left 0:15

1	2
7	8
13	14
19	20

Finish atte



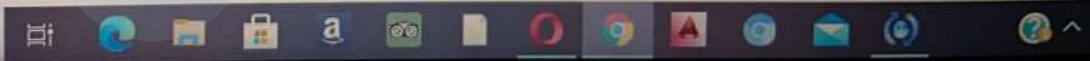
Welcome to Opera!

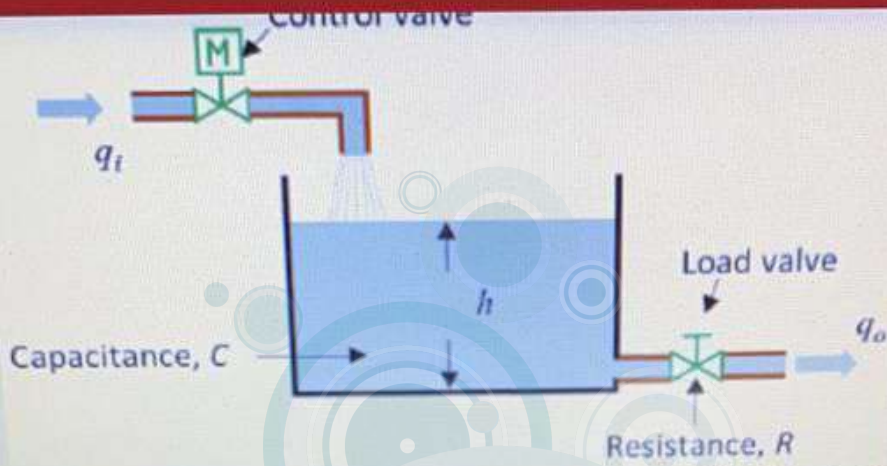
Did you know that Opera ad blocker enabled is 90% faster?

Opera

[Don't show again](#)

Type here to search





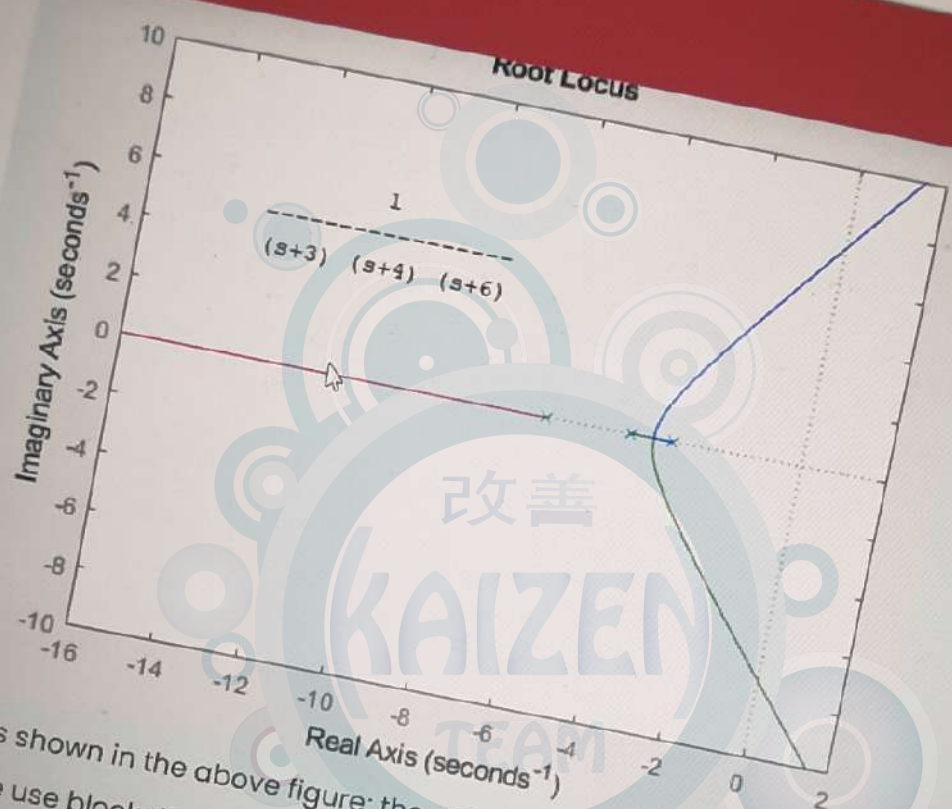
if the capacitance is 0.5 m^2 and the resistance $R = 0.1 \text{ m}^2\text{s}/(\text{m}^3)$; $q_i = 0.05/\text{s}$ ($0.05 \text{ m}^3/\text{s}$ a step increase)
Then the final value for q_o in m^3/s

- a. 0.13
- b. 0.01
- c. 0.05
- d. 0.015
- e. 0.03



here to search





GH is shown in the above figure; the value K that intersects the imaginary axis if $H(s)=1$;
 (note use block diagram reduction for G and H) select closest number

- a. 110
- b. 750
- c. 630
- d. 350
- e. 500

```
}  
void blink(int ontime, int offtime)  
{  
  // turns on LED (externally defined) for ontime ms  
  // then off for offtime ms before returning  
  digitalWrite(LED, HIGH);  
  delay(ontime);  
  digitalWrite(LED, LOW);  
  delay(offtime);  
}
```

```
void morse_s()  
{ dot(); dot(); dot(); lettersp  
void morse_o()  
{ dash(); dash(); dash(); letterspace
```

Time le

for the above arduino code one of these statements is **not true**

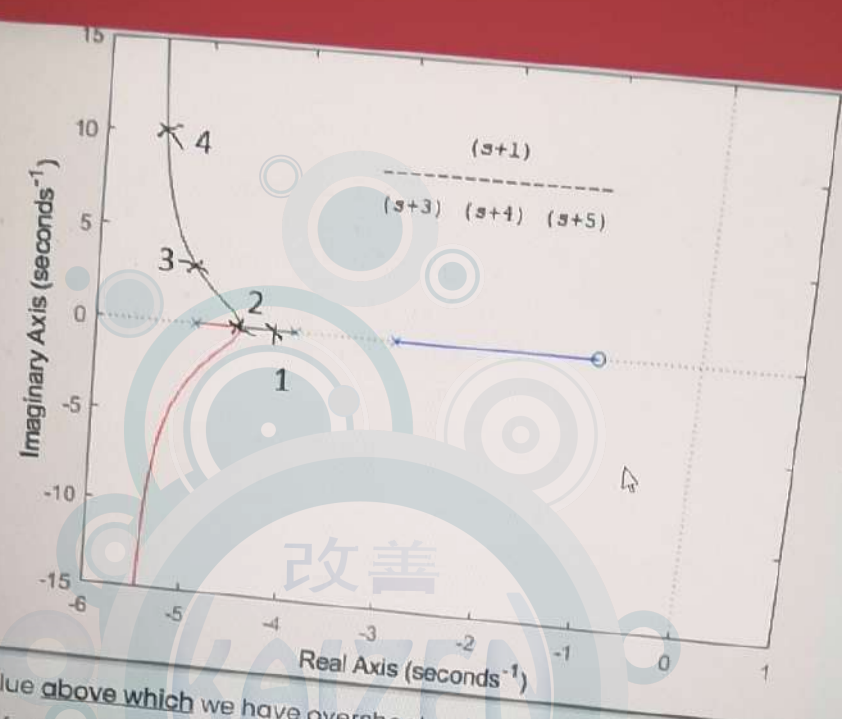
- a. for each loop the wordspace is executed once.
- b. for each loop the dot() function is executed 9 time
- c. for each loop; the dash function is executed 3 times
- d. for each loop; the blink function is exected 9 time
- e. for each loop the letterspace is executed 3 times

Finish attempt

be here to search



Not yet answered
Marked out of 100
Flag question



K value above which we have overshoot
 $GH = \frac{(s+1)}{(s+3)(s+4)(s+5)}$

- a. 1.5
- b. 0.3
- c. 0.11
- d. 0
- e. 0.51

here to search



Handwritten notes on a piece of paper, including a block diagram with two blocks labeled G1 and G2 connected in series.

