Unit 9 - Week 8

Assignment 8

The due date for submitting this assignment has passed. Due on 2016-09-14, 23:59 IST.
As per our records you have not submitted this assignment.

1) Yawing moment equation for an aircraft is given as *1 point*

The damping ratio and natural frequency are respectively

- 0.05 and 0.05
- 1.24 and 0.05
- 0.05 and 1.24
- 1.24 and 1.24

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.05 and 1.24

2) For question-1 what will be the feedback gain so that the desired damping ratio is 0.2 *2 points*

- $|K_1|=0.125$
- $|K_1|=0.575$
- $|K_1|=1.54$
- $|K_1|=0.755$

No, the answer is incorrect.
Score: 0

Accepted Answers:
$|K_1|=0.575$

3) For an aircraft equation of motion for constrained pitching motion is given as *1 point*

The value of damping ratio and natural frequency are respectively

- 2.343 and 2.343
- 2.343 and 0.015
- 0.015 and 0.015
- 0.015 and 2.343

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.015 and 2.343

4) For question-3 what will be the feedback gain so that the desired damping ratio is 0.4 *2 points*

No, the answer is incorrect.
Score: 0

Accepted Answers:

5) Short period dynamics is given by *4 points*

What will be the feedback gains so that aircraft characteristic roots are -2.5 ± 3.14**i**

No, the answer is incorrect.
Score: 0

Accepted Answers:

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