



<http://elec3004.com>

Some information and feedback from a tutor

ELEC 3004: **Systems**: Signals & Controls
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Tutorial 3 | Week 6

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Platypus Marking

- Waiting for Surya to release a rubric
- Once that's done, then Surya will wait a few days, and we'll finalise our marks, and remove bad reviews and then release them all.



Platypus Marking

- For assignment one, your peer marks will effect other students grades.
- Never fear however, because we have overarching power, and will remove silly/wrong/no effort marking.
- Surya *may* change this for 2 and 3.


You don't **have** to mark. But you should.



Platypus Marking

Student review

Mark:
100%




This review is good.

Good work!

Your answers seem correct. Your solution to part B lacks any working. When giving solutions it is important to define your terms, explain your working and state your assumptions.

Your solution is well laid out, however, greater elaboration on the steps taken with additional working would only enhance your solution.

You should state your assumptions and attempt to explicitly define what you are trying to do. In part B, in particular, it would be helpful if the origin of the zeros and poles was defined, in general and in relation to the transfer function.



review #18916

Great job! This is a good from PS0 review.



Platypus Marking

No actual
comments.

Answer
wasn't
actually good.

No effort.

Removed

Student review

good.

Mark:
100%





Platypus Submission

External sites
for equations =
bad

Only like 2.5%
of people did
this, but be
weary.

3a) Standard Basis Vectors:

$$\omega_s = 2 \times 2\pi = 12.57\text{rad/s}$$

Therefore:

$$\omega_s = 2 \times 2\pi = 12.57\text{rad/s}$$

3b) Basis Matrix:

$$\omega_s = 2 \times 2\pi = 12.57\text{rad/s}$$

Taking the inverse of W:

$$\omega_s = 2 \times 2\pi = 12.57\text{rad/s}$$

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1)

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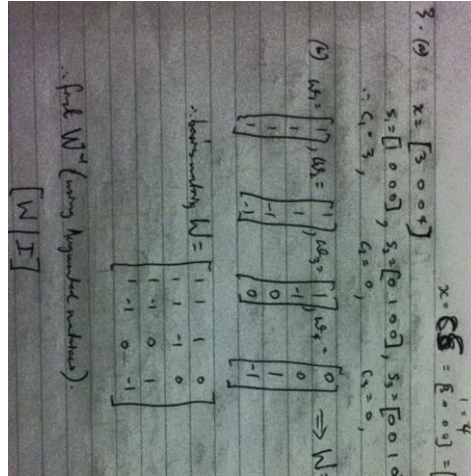
$$\omega_s = 2 \times 2\pi = 12.57\text{rad/s}$$



Platypus Submission

Just no

Again,
around 2%
of people
did this.



Platypus Submission

[practice assignment Q2.docx \(16.12 KB\)](#)

gnment Q2.docx

.docx



Why though? Because viruses, people don't have word, metadata, and a bajillion other things.

Platypus Submission

- You'll find that as the year goes, and assignments get a bit harder, and need more explanation/pictures, pdf is a lot easier.
- % of .pdf makers tends to get higher as the year goes on.



General Assignment Feedback

- The large majority of everyone did great!
- In saying that, let's talk about how we can improve:



For the Following

- Numbers are just approximates
- And every individual situation is unique.

- In saying that.....



If you're getting 50%

- Chances are:
 - Missing entire questions
 - Wrong answers (Not including little errors, if you forget to carry a negative or something, we generally overlook that)
 - No explanation
 - Very little to mark



If you're getting 50%

- How to do better:
- Read the assignment doc better. (Use Surya's google doc, not pdf)
- Spend more time on the assignment. It's 20%, so they **will** be time consuming.
- Explanation is your friend. Use your words. In order to do this though, you'll need to really understand the question.



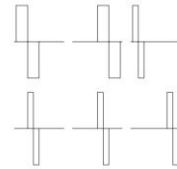
If you're getting 75%

- Chances are, you've done the maths for everything and it's probably largely correct, with some little errors.
- Answers probably are purely maths.
- Not much explanation.



If you're getting 75%

- How to do better:
- Explain yourself better. Like you're trying to educate a tutor/students reading it.
- Pictures worth 1000 words. (Q3 wavepacket)
- Write more, at every meaningful answer to the assignment, ask yourself "why" and explain yourself.



If you're getting 90%

- You're doing fantastically.
- You've done well enough that your only error(s) will be mentioned by the tutor marking the assignment, so focus on what they've said.



Long Math Equations

- We know you can do maths.
- Matrix inversion is long and tedious to type up.
- Especially in LaTeX.
- Showing every individual step for Gaussian reduction is a little overkill.
- Wolfram is your friend. (and MATLAB)



What we are doing today?

- Assignment 2 is officially out! Got any questions about it, give us a yell.
- Tim's tutorial sheet!

