

MAS156: Mathematics (Electrical and Aerospace)

Dr Sam Marsh

mas-engineering@sheffield.ac.uk

Tuesday 25th September 2018, 1pm
Diamond LT4

About the course

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- work on exercises from exercise sheets in your own time.

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Course website

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Timetable

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Past papers for the exam will be made available nearer the time.

Video lectures and online tests

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You won't receive any reminders: it's your responsibility to log in twice a week and watch the videos and do the tests!

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Problem classes

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Exercises

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Full-class lectures

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Reading week

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Engagement

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- use the discussion board for extra help.

Syllabus, Weeks 1–4

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In Week 4 we will move on to *differentiation*.

Activity

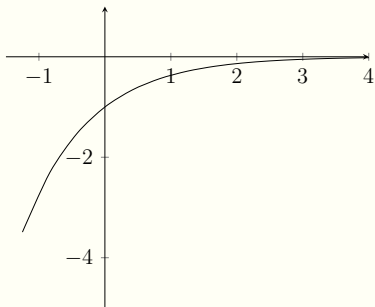
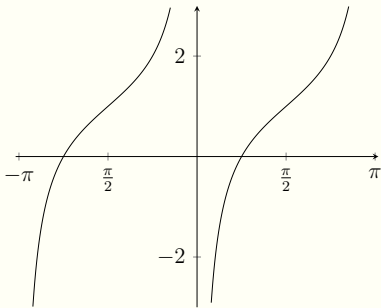
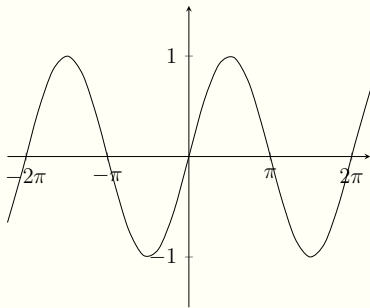
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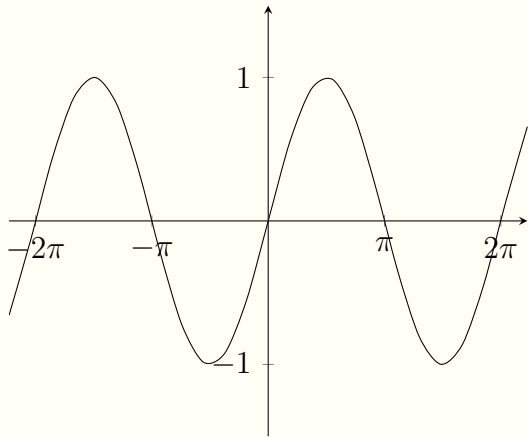
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Once you have identified the functions, discuss any understanding you have of the terms *domain*, *range*, *odd*, *even*, *periodic*, and *continuous* which appeared in the earlier slides.

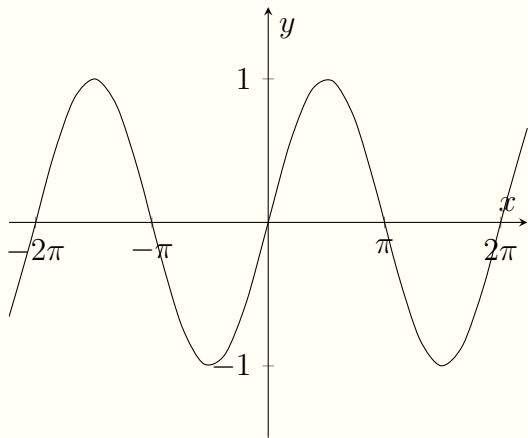


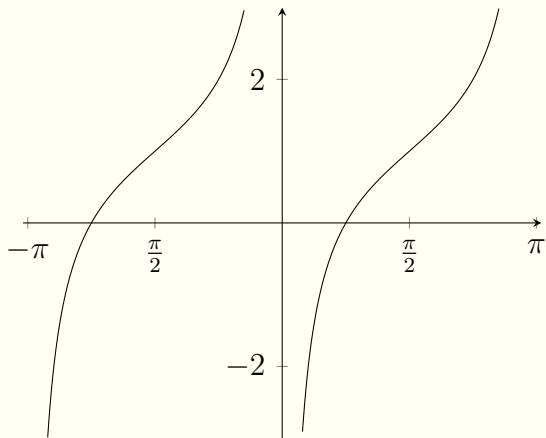
Terms: *domain, range,*
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Answers

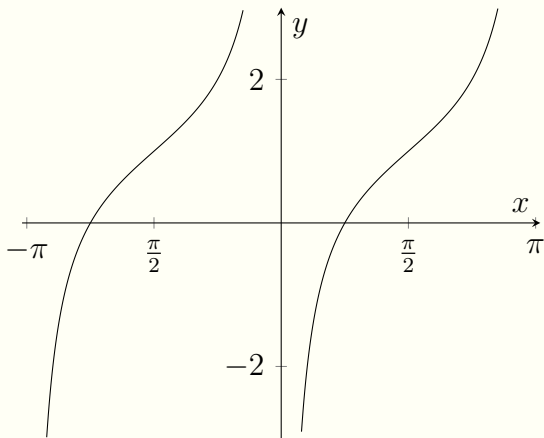


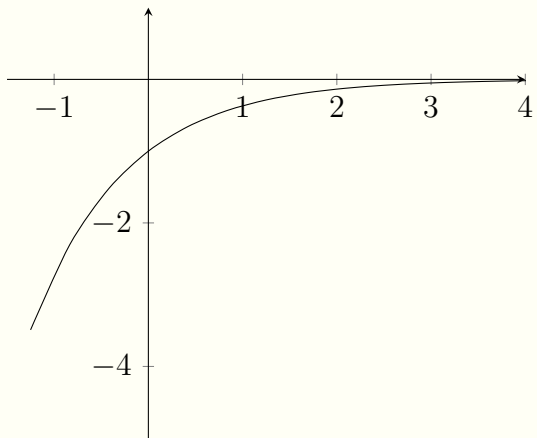
$$y = \sin x$$



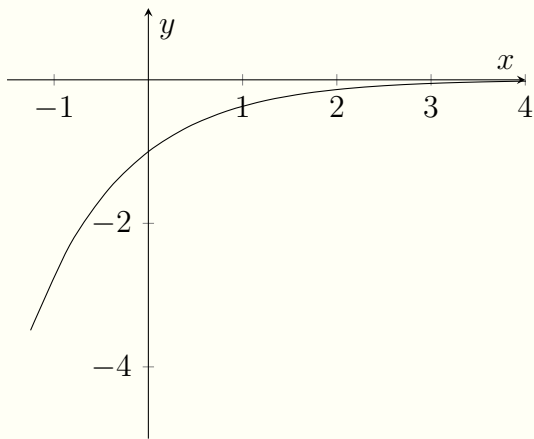


$$y = \tan\left(x - \frac{\pi}{2}\right) + 1$$





$$y = -e^{-x}$$



Reminders

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I hope you enjoy the first few weeks of the course.