

PX275:Mathematical Methods for Physicists

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Module questionnaire 20/21 (PX275 term 1)

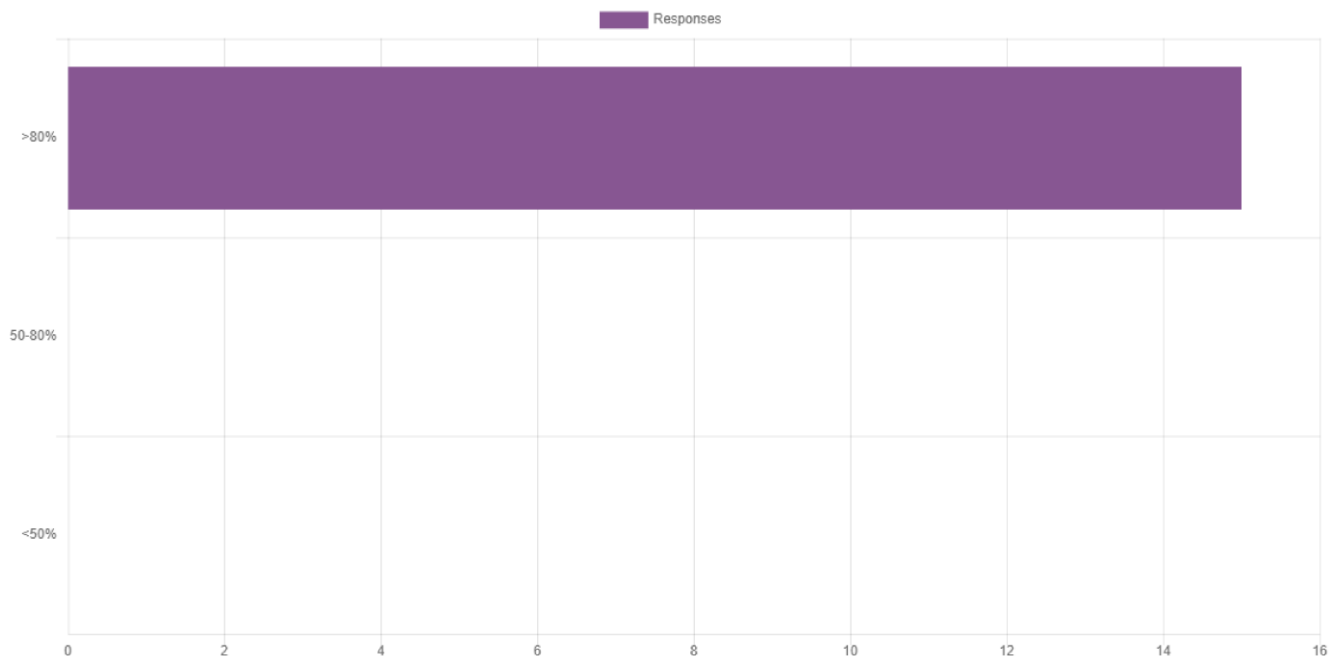
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Submitted answers: 16 / 122

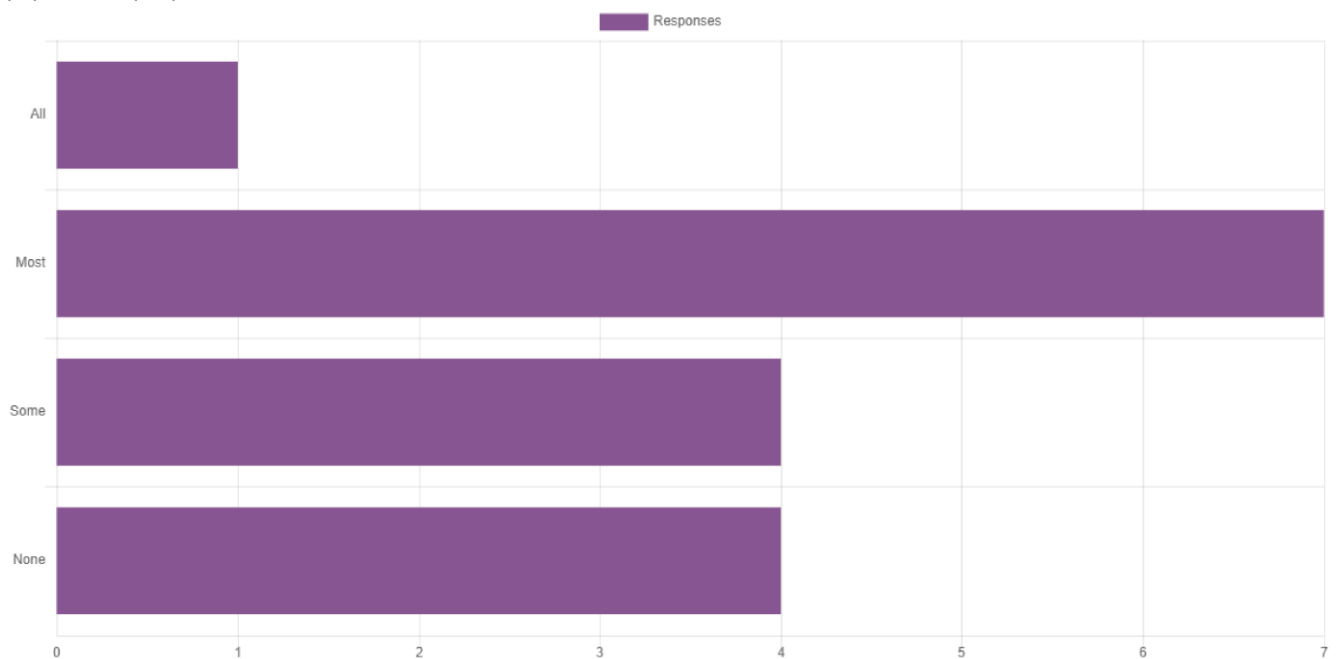
Questions: 20

(Q1) I watched or read through the notes of (...?...) of the online lecture material



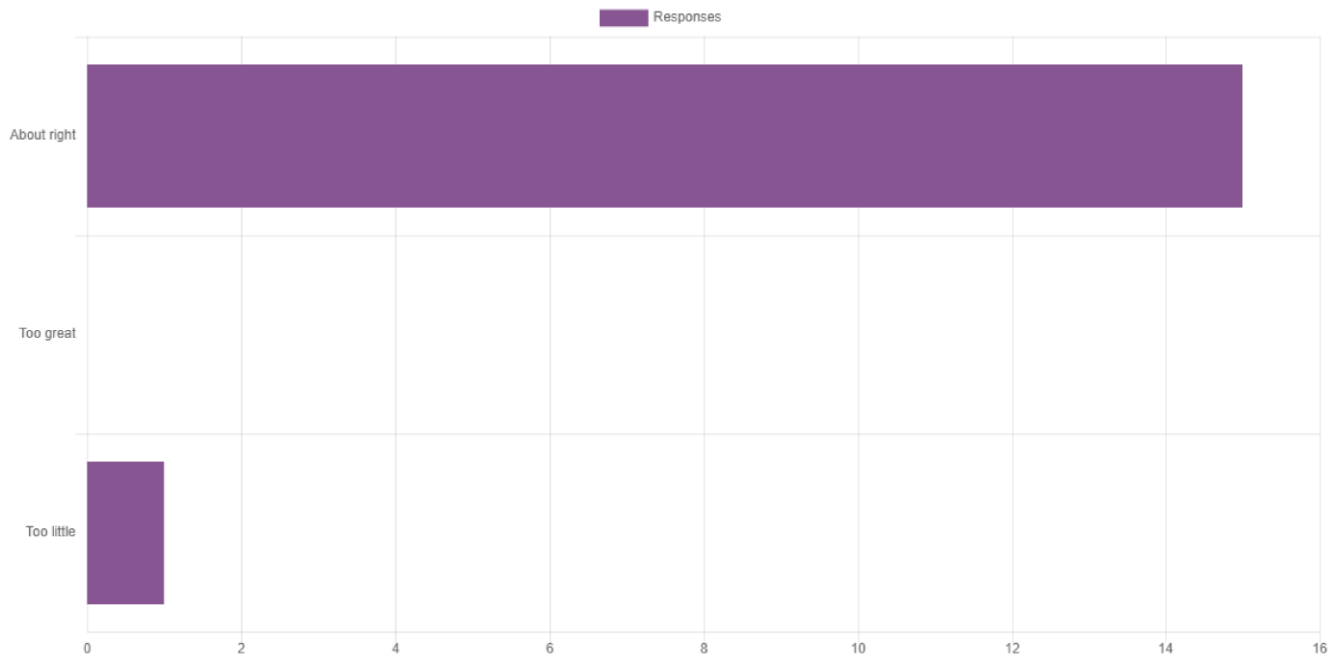
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(Q2) I attended (...?...) of the Live events for this module



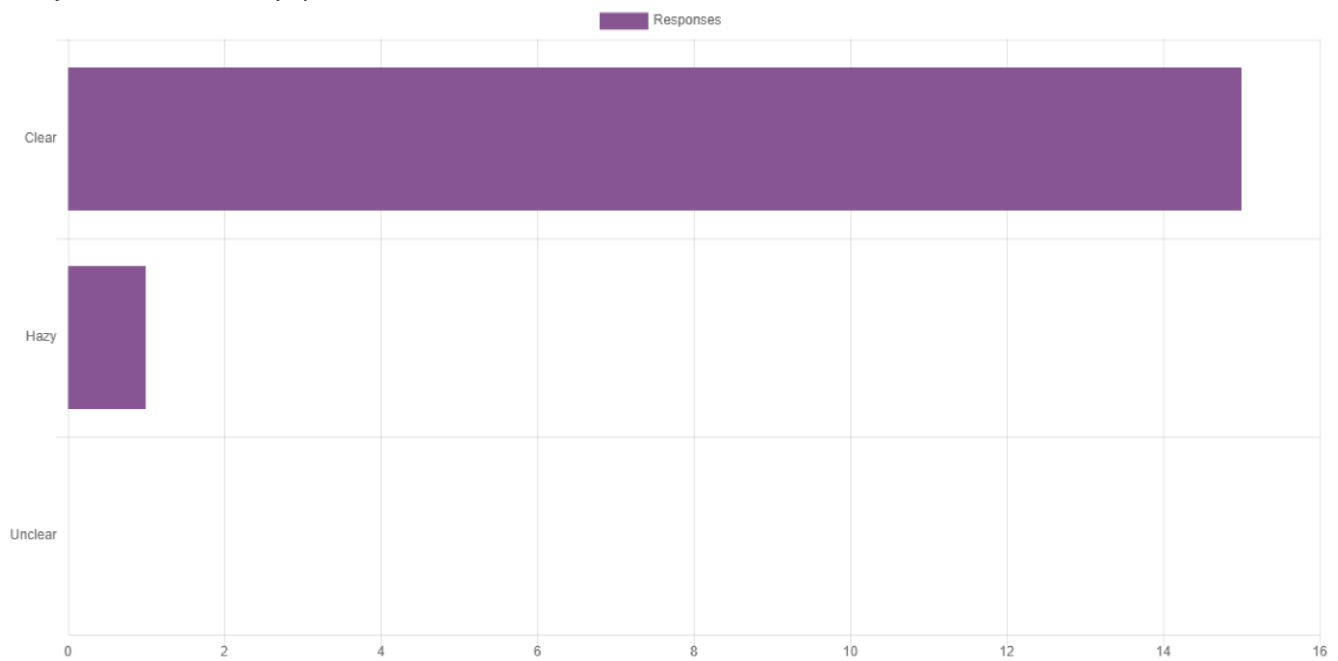
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(Q3) The quantity of material was



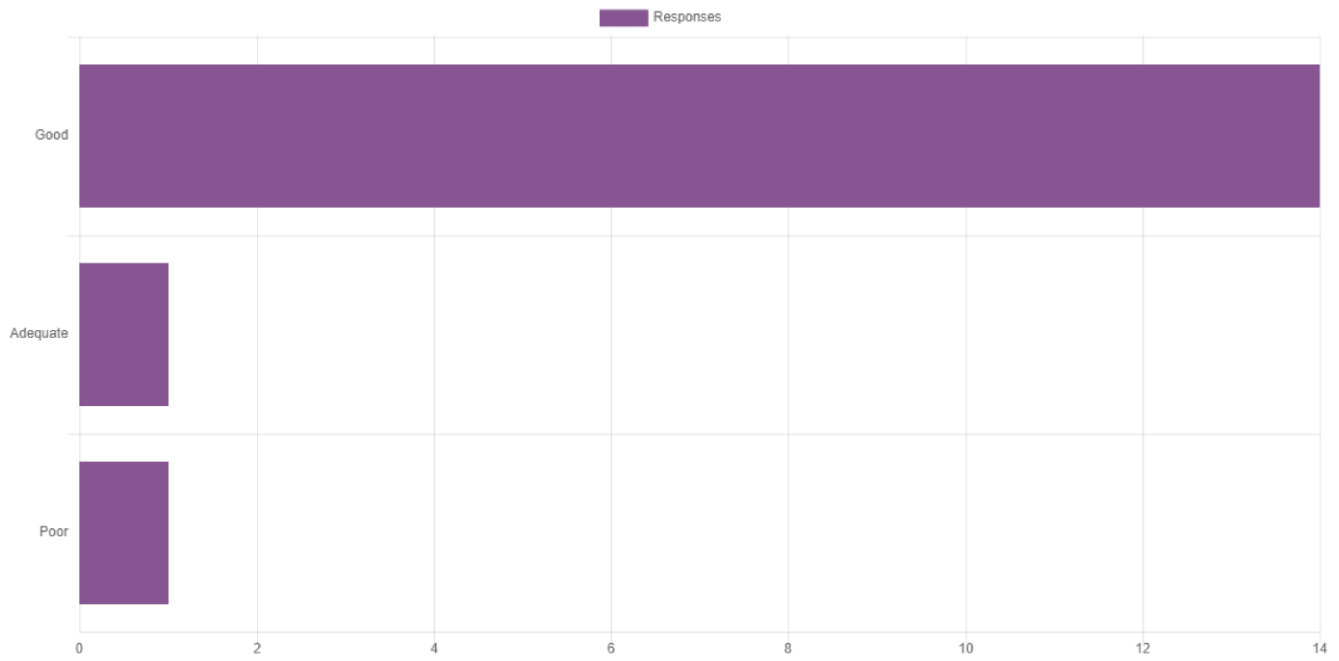
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(Q4) By the end of the module its purpose and direction were



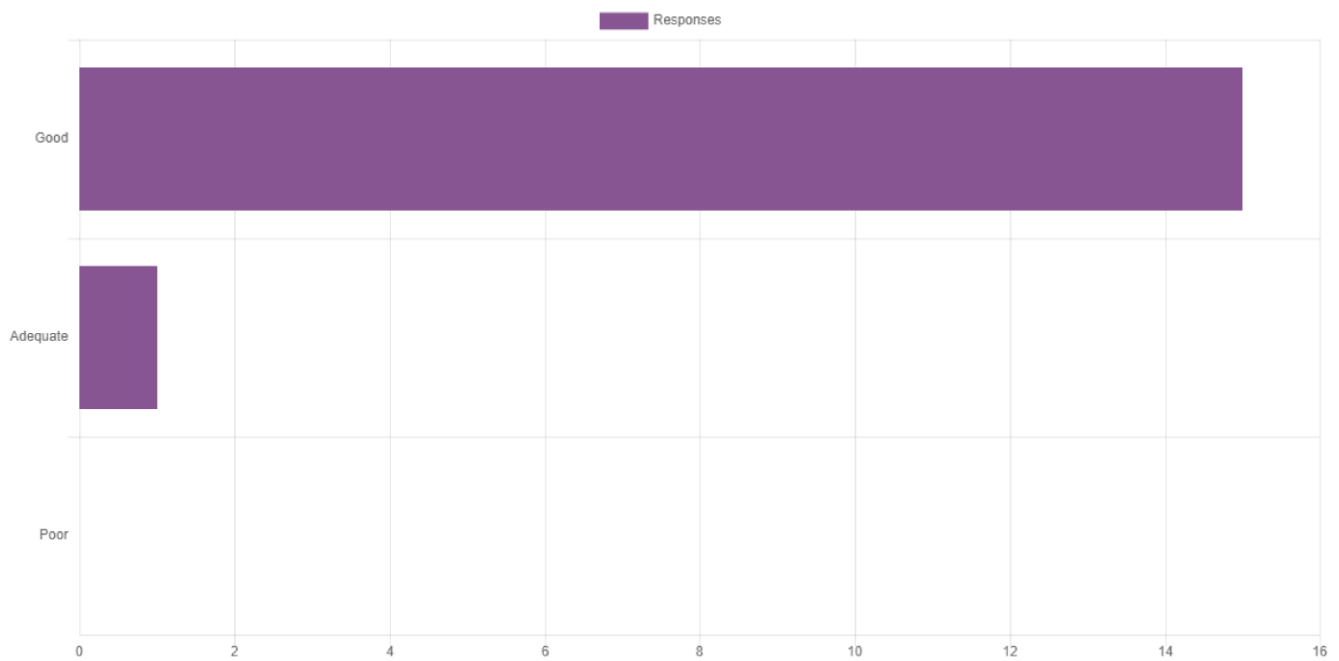
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(Q5) Explanation of new terms and concepts was



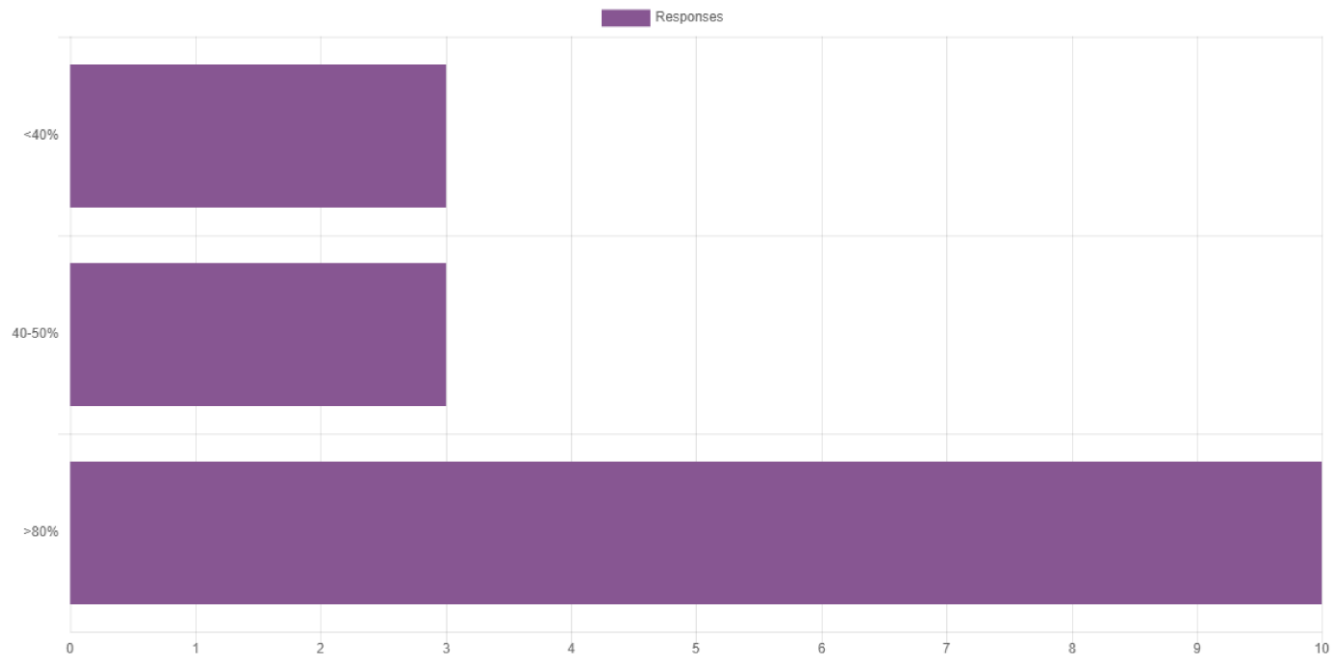
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(Q6) I have a (...?) set of notes



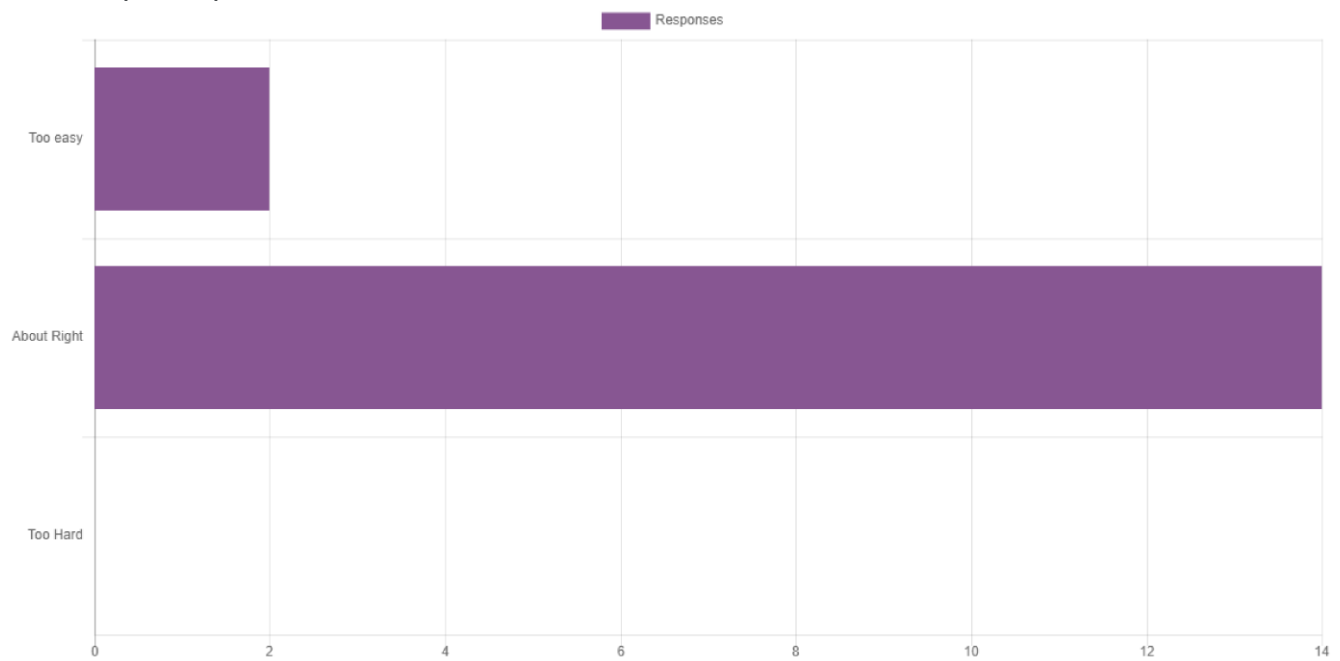
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(Q7) I attempted (...?) of examples sheet questions



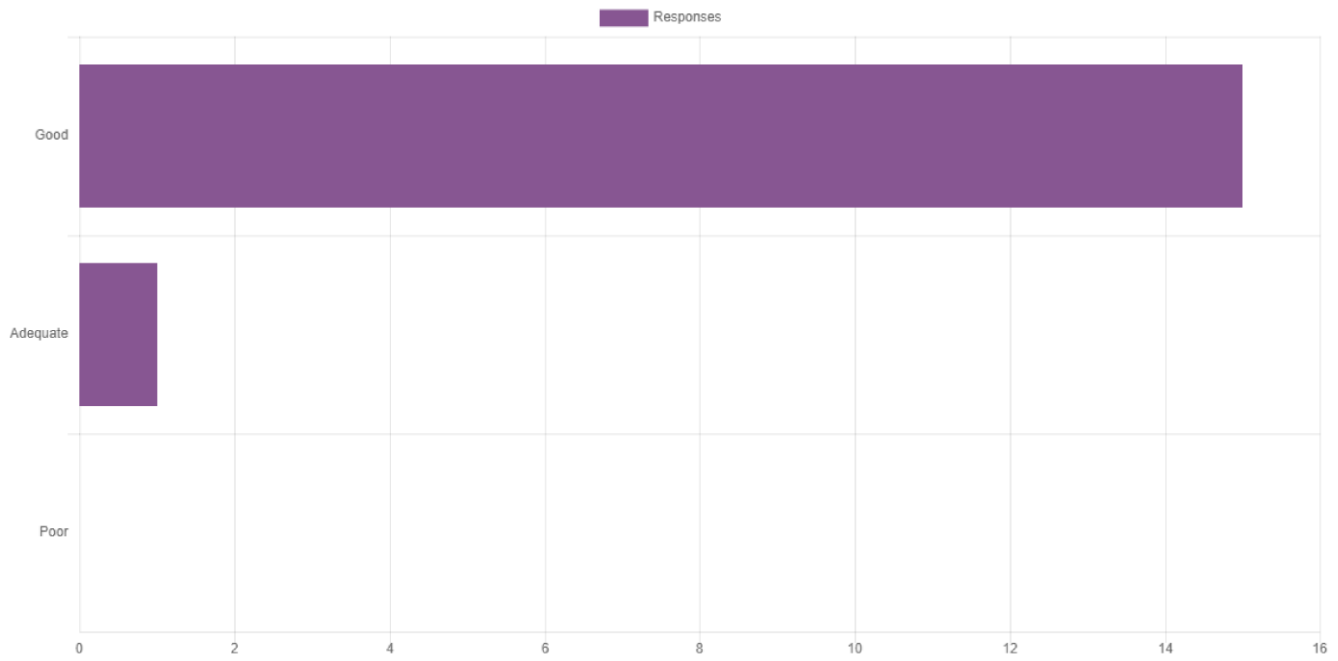
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(Q8) The examples sheet questions were



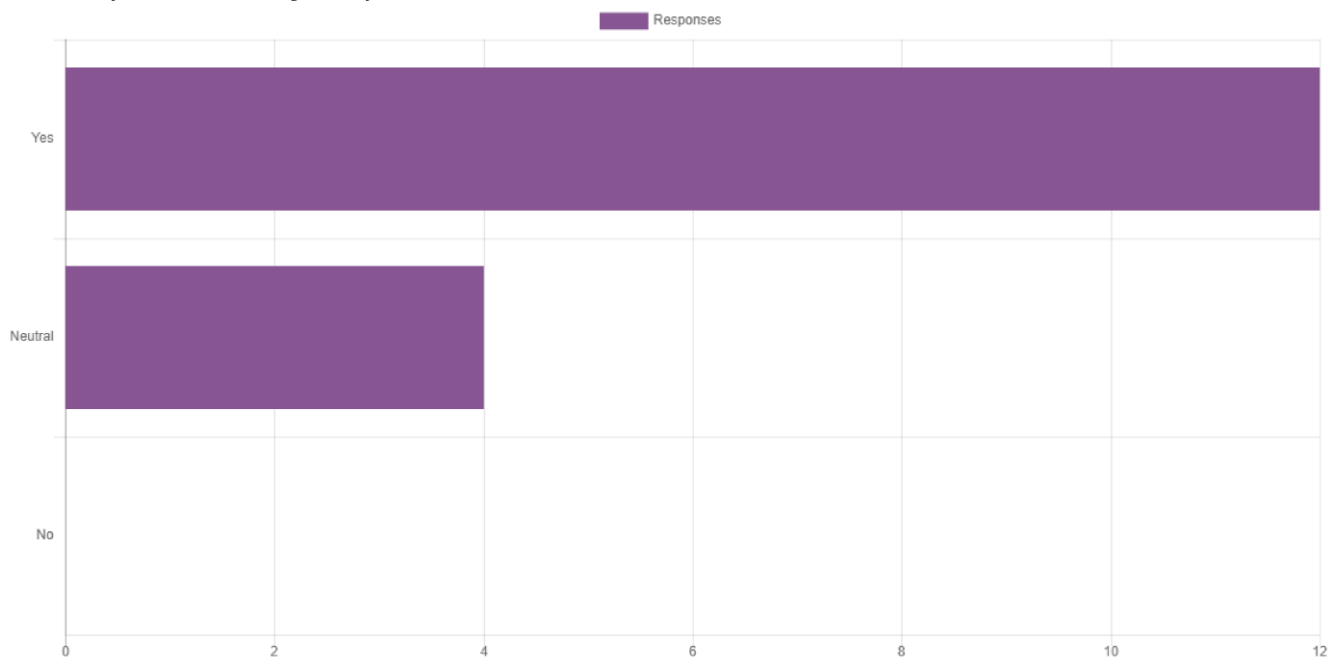
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(Q9) Promptness of feedback on submitted coursework was



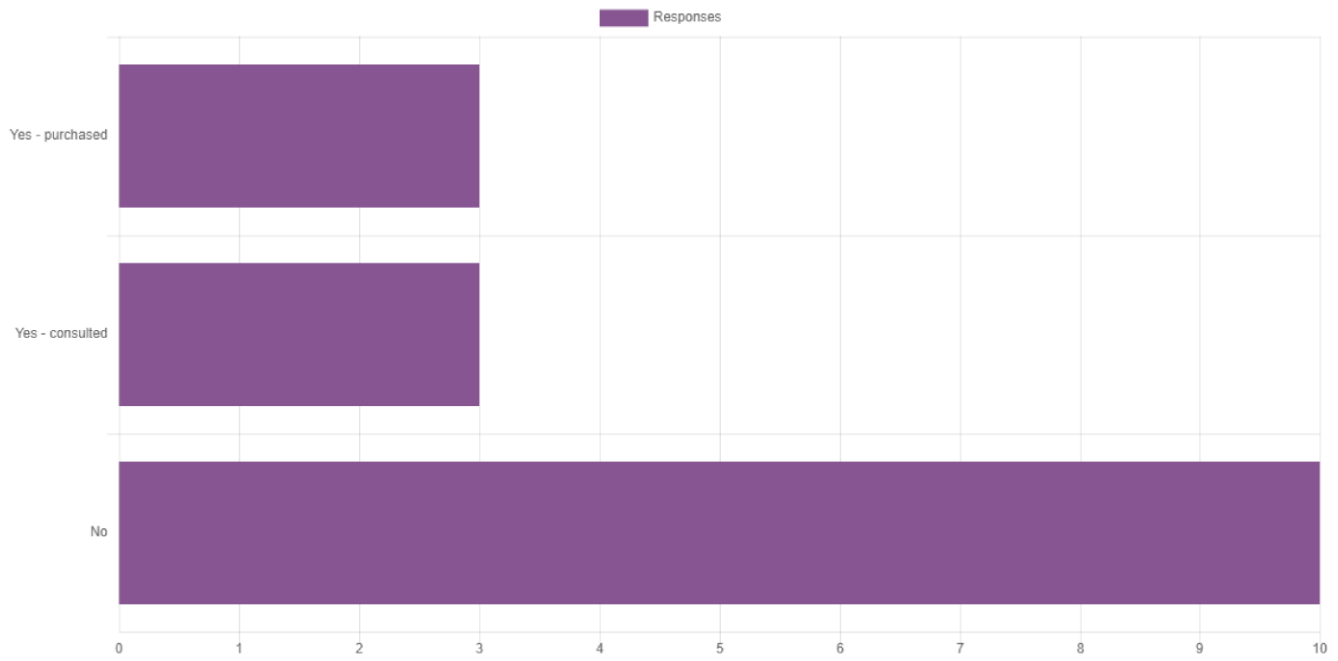
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(Q10) Would you like a course taking this subject further ?



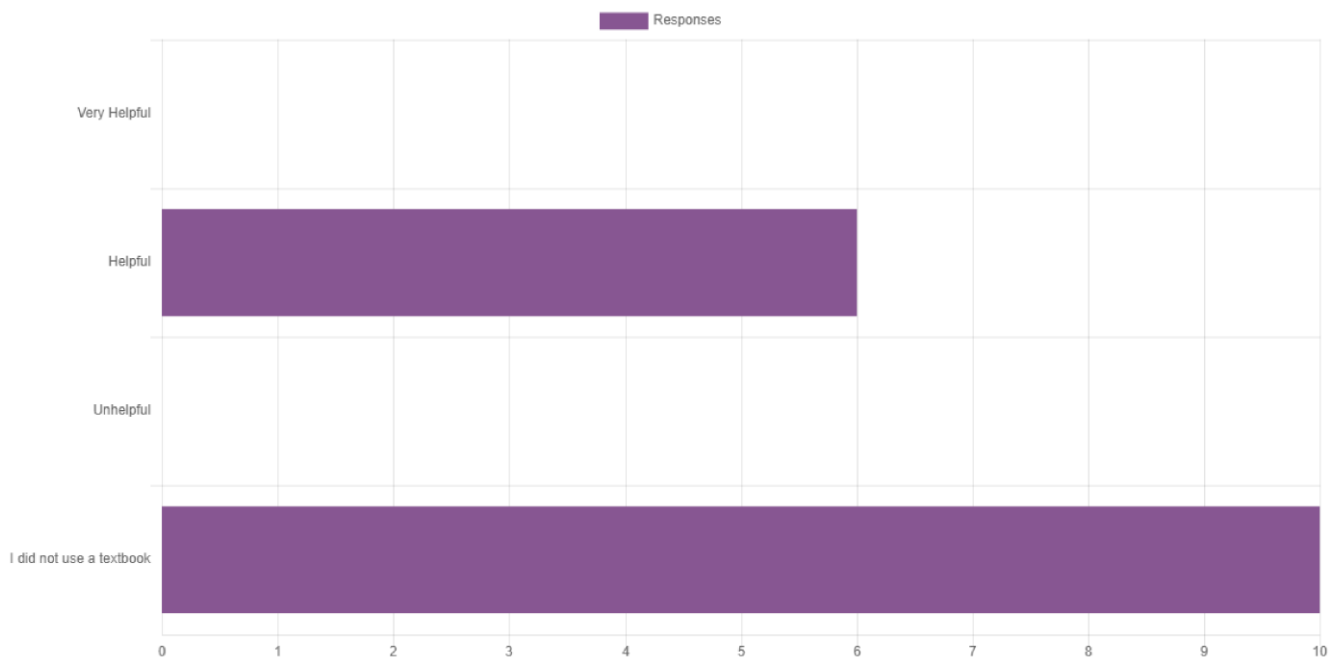
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(Q11) Did you use any of the recommended/suggested textbooks?



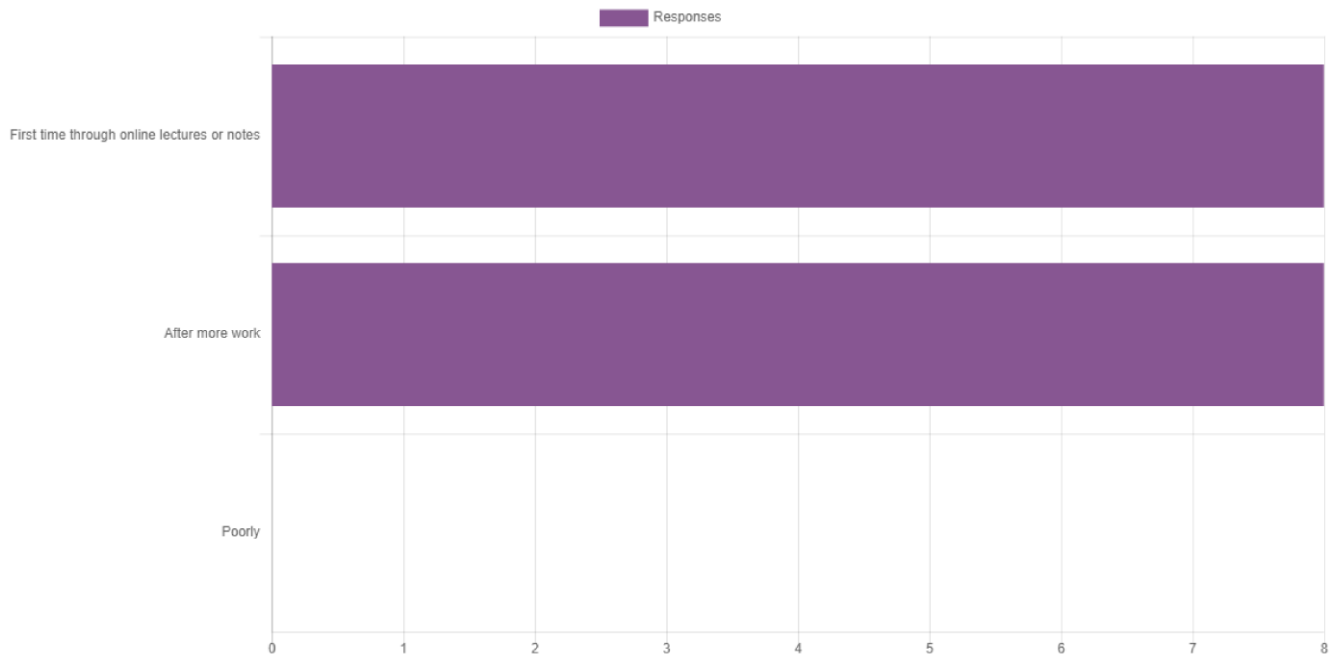
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(Q12) I found the textbook(s) used to be



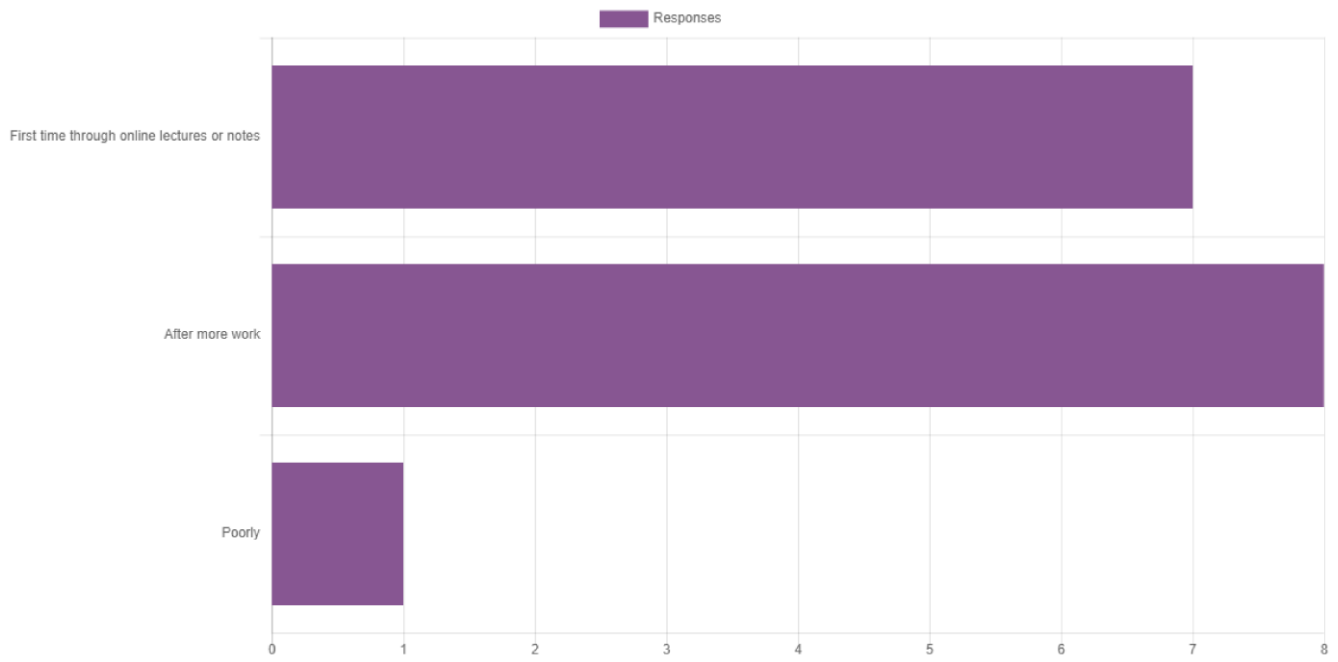
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(A) Change of coordinate systems/basis vectors



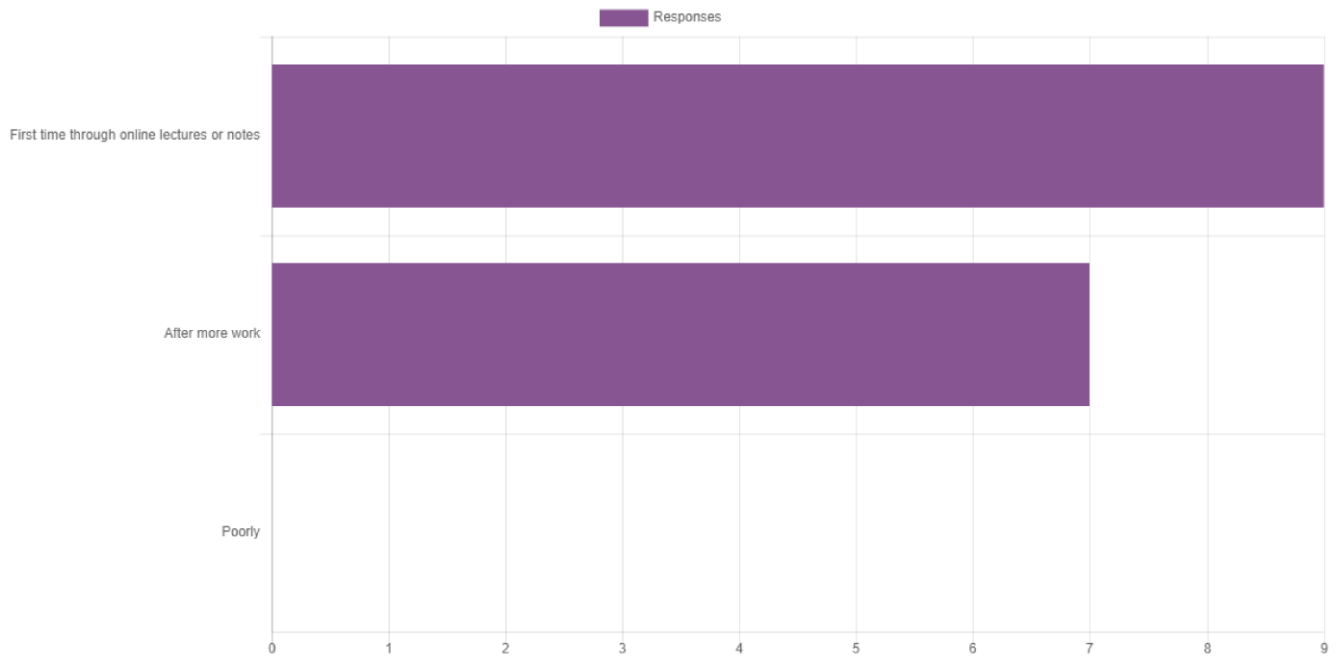
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(B) The method of Lagrange Multipliers



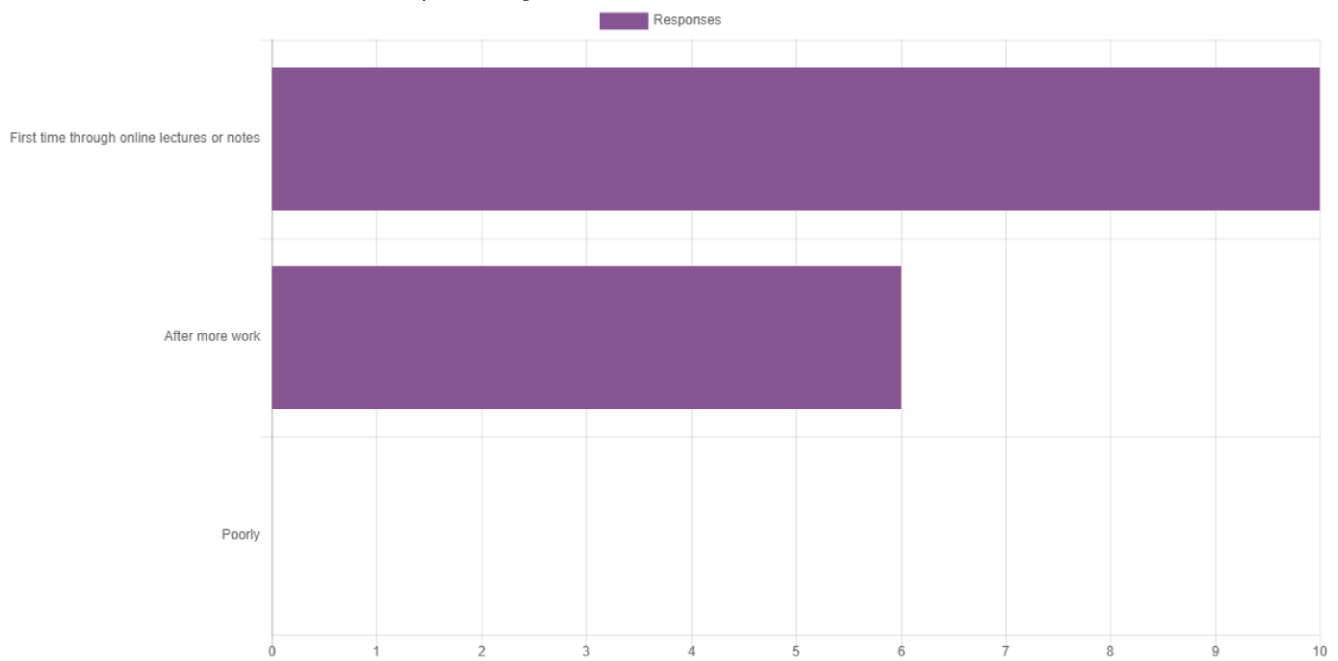
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(C) Line/surface/volume integrals including surfaces/volumes of revolution



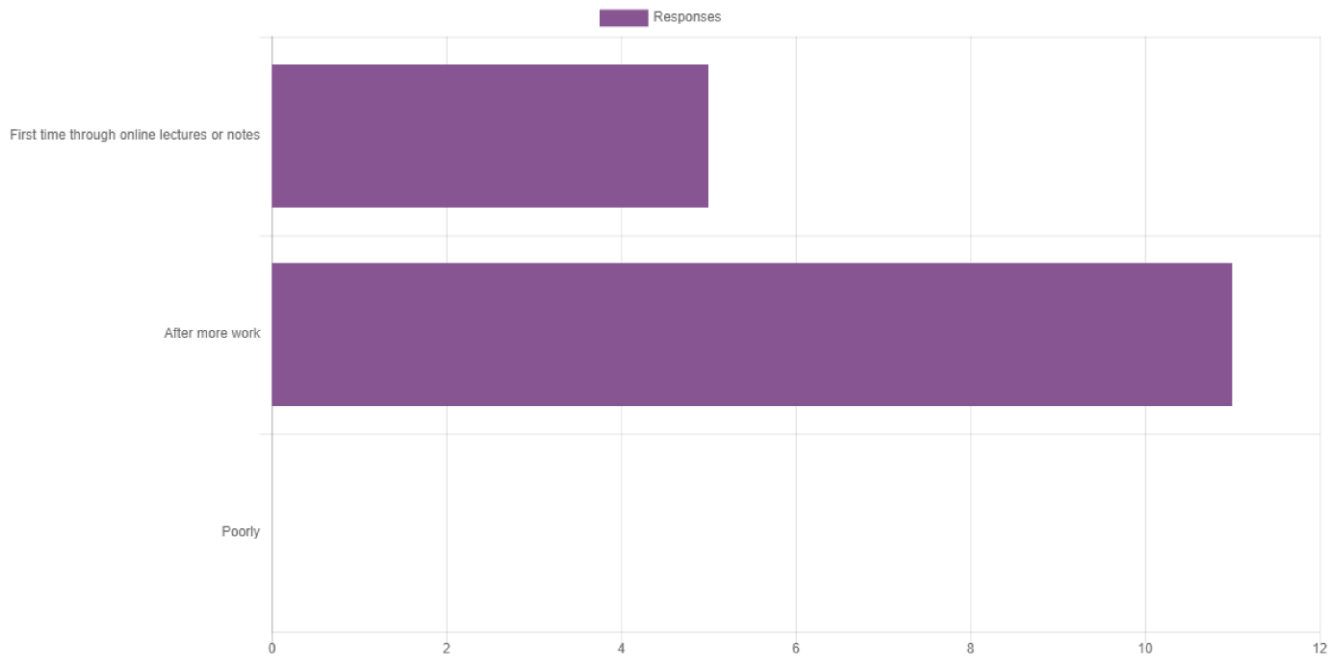
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(D) Vector calculus: scalar/vector fields and the interpretation of grad,div and curl



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(E) The interpretation and application of Green's theorem, Stokes's theorem and the Divergence theorem



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The best features of this module were:

- The pacing makes the topics easy to understand
- Interesting course content and links to other areas of physics
- Lectures were well separated. Some good practice questions helped solidify knowledge.
- Was pitched at the right level
- How clear the content was and the range of examples given.
- I really enjoyed the section focused on vector calculus
- Good explanations and example problems
- Plenty of examples.

Any particular aspects/items needing improvement (and suggestions how):

- Problems with the online test
- Lots of things were just stated with no proof. I don't necessarily mean a proper proof would be helpful but I found that the geometric explanations on Khan academy of Curl, Divergence, Green's theorem and Lagrange multipliers were very useful. These really helped my understanding and intuition of these topics. I think just stating these results also makes them very unmemorable.
- Lots of this course also seemed to be overlap/repeat content from maths in the first year and from E&M (PX120). For example the sections of line, volume integrals and the entire section on basis vectors.
- MoodleX assessments were just not the right way to submit maths, you spend more than half your time typing your answers in and even the smallest typo in the final answer can lose you lots of marks.
- Could make some of the questions on the example sheets a bit harder.
- Sometimes could have set the problem sheets a bit earlier so we had 2 weeks rather than 1 to do them.
- The online quizzes were very long and seemed to ask the same questions. It was hard to put the answers in and I couldn't tell what was wrong on my second attempt

Any other comments:

- Good lecturer, decent lectures, probably could have had better audio and video but it is not a huge issue

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