

Feedback GA 1-6

Q1:

In this questions, some groups missed that the reason for it taking more iterations is because the slope of the first point is very small. Therefore, it takes you further away from the initial point, and requires more iterations to arrive at the numerical solution.

Q2:

This question was generally really well answered. The figure was not correct for some groups, which may indicate an issue with the implementation in code.

Q3:

Errors in Q3 are often due to the graph in Q2 being incorrect. Some groups overestimated the value of dt .

Q4:

Parts of the answers were missing for many groups. Many groups did not include a drawing of the stencils. Groups generally answered these parts they submitted well. There were some errors in some of the equations and some of the stencils were drawn incorrectly.

Q5:

Many groups made mistakes in this question. The main reason for points being deducted was due to the answer being incomplete. Many groups also incorrectly wrote out the A matrix or wrote $A = 1$ for the matrix.

Q6:

This question was well answered by most groups. Some groups had incorrect figures for $T=10,000$.

Q7:

Many groups were missing some parts of the discussion. Please refer to the answers for the bullet points of what could have been included to improve your answer.

Q8:

This question was generally well answered. Most of the discussions were correct, but some did not mention about BE being unconditionally stable.

Q9:

The majority of the groups answered this question correctly. A way for some of the groups to expand their answers is to also discuss the difference in complexity between the two methods.