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Unit 9 - Week 8

Assignment 8

The due date for submitting this assignment has passed. **Due on 2017-10-05, 23:59 IST.**

Submitted assignment

1) Report the value of yv(201) for GVF using forward euler. Use the source code *forward_euler.sci* with mnode=201 and Lx=200. ***1 point***

- 0.6450995
- 0.6404487
- 0.6404198
- 0.6404392
- 0.6404033

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.6450995

2) Report the value of yv(201) for GVF using modified euler (1st). Use the source code *modified_euler_1st.sci* ***1 point*** with mnode=201 and Lx=200.

- 0.6450995
- 0.6404487
- 0.6404198
- 0.6404392
- 0.6404033

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.6404487

3) Report the value of yv(201) for GVF using modifed euler 2nd. Use the source code *modified_euler_2nd.sci* ***1 point*** with mnode=201 and Lx=200.

- 0.6450995
- 0.6404487
- 0.6404198
- 0.6404392
- 0.6404033

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.6404198

4) Report the value of yv(201) for GVF using RK2. Use the source code *RK2.sci* with mnode=201 and Lx=200. **1 point**

- 0.6450995
- 0.6404487
- 0.6404198
- 0.6404392
- 0.6404033

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.6404392

5) Report the value of yv(201) for GVF using RK4. Use the source code *RK4.sci* with mnode=201 and Lx=200. **1 point**

- 0.6450995
- 0.6404487
- 0.6404198
- 0.6404392
- 0.6404033

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.6404033

6) Report the value of h(10,10) for steady two dimensional groundwater flow through confined aquifer using finite volume method. Use the source code *unsteady_2D_fvm_conf_implicit_iterative.sci* with mnode=31, nnode=21. The top left boundary hA height is 95m. **1 point**

- 90.07551
- 90.74551
- 90.47551
- 90.44551

No, the answer is incorrect.
Score: 0

Accepted Answers:
90.74551

7) Report the value of h(10,10) for steady two dimensional groundwater flow through confined aquifer using finite volume method. Use the source code *unsteady_2D_fvm_conf_implicit_iterative.sci* with mnode=31, nnode=21. The top left boundary height hA is 95m. The value of S and T are respectively 10e-05 and 100. **1 point**

- 90.770893
- 90.550893
- 90.750893
- 90.570893

No, the answer is incorrect.
Score: 0

Accepted Answers:
90.750893

8) Report the value of h(10,10) for steady two dimensional groundwater flow through confined aquifer using finite volume method. Use the source code *unsteady_2D_fvm_conf_implicit_iterative.sci* with mnode=31, nnode=21. The convergence criteria is 1e-3. Top left boundary height hA is 90m. Take S=5e-5 and T=200. **1 point**

- 88.98436
- 88.88436
- 88.90436
- 88.551547

No, the answer is incorrect.
Score: 0

Accepted Answers:
88.98436

9) Report the value of h(10,10) for steady two dimensional groundwater flow through confined aquifer using finite volume method. Use the source code unsteady_2D_fvm_conf_implicit_iterative.sci with mnode=31, nnode=21. The convergence criteria is 1e-4. Top left boundary height hA is 90m. Take S=5e-5 and T=200. ***1 point***

- 88.98436
- 88.88436
- 88.90436
- 88.551547

No, the answer is incorrect.
Score: 0

Accepted Answers:
88.551547

10) Report the value of h(10,10) for steady two dimensional groundwater flow through unconfined aquifer using finite volume method. Use the source code unsteady_2D_fvm_unconf_implicit_iterative.sci with mnode=31, nnode=21. The value of Kx and Ky are 20 and 20. Take Sy=0.5. ***1 point***

- 88.523143
- 88.023143
- 88.553143
- 88.532143

No, the answer is incorrect.
Score: 0

Accepted Answers:
88.523143

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