

QUESTION 1

If vector \mathbf{w} is of dimension 3×1 and matrix \mathbf{A} of dimension 5×3 , then what is the dimension of $(\mathbf{w}^\top \mathbf{A}^\top \mathbf{A} \mathbf{w})^\top$?

- ☐ 5×5
- ☐ 3×3
- ☐ 3×1
- ☐ 1×1

5 points

Save Answer

QUESTION 2

Is this the image of a tree?



- ☐ yes
- ☐ false

5 points

Save Answer

QUESTION 1

[5.0 marks] Multiple Choice

If vector \mathbf{w} is of dimension 3×1 and matrix \mathbf{A} of dimension 5×3 , then what is the dimension of $(\mathbf{w}^\top \mathbf{A}^\top \mathbf{A} \mathbf{w})^\top$?

a. 5×5

b. 3×3

c. 3×1

d. 1×1

QUESTION 2

[5.0 marks] Multiple Choice

Is this the image of a tree?



a. yes

b. false

Exam Number: _____

Seat Number : _____

Mark your exam number below

0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9

All your MCQ answers must be filled in on this answer page.

For **True** or **False** questions, mark ☐ T or ☐ F . For questions with multiple choices, mark all solutions that are correct (for instance ☒ A ☒ B ☐ C ☒ D).

Q.1 ☐ A ☐ B ☐ C ☐ D

Q.2 ☐ A ☐ B

Q.1. If vector \mathbf{w} is of dimension 3×1 and matrix \mathbf{A} of dimension 5×3 , then what is the dimension of $(\mathbf{w}^T \mathbf{A}^T \mathbf{A} \mathbf{w})^T$?

- ☐ A 5×5
- ☐ B 3×3
- ☐ C 3×1
- ☐ D 1×1

[5.0 marks]

Q.2. Is this the image of a tree?



- ☐ A yes
- ☐ B false

[5.0 marks]