

Lecture #001 Pages (4 - 6)

Due Jan 30 at 5pm **Points** 10 **Questions** 4
Available Jan 23 at 12am - Feb 6 at 11:59pm **Time Limit** None
Allowed Attempts Unlimited

This quiz was locked Feb 6 at 11:59pm.

Attempt History

	Attempt	Time	Score
KEPT	Attempt 2	4 minutes	10 out of 10
LATEST	Attempt 2	4 minutes	10 out of 10
	Attempt 1	less than 1 minute	7.5 out of 10

Score for this attempt: **10** out of 10
Submitted Jan 28 at 5:27pm
This attempt took 4 minutes.

Question 1

2.5 / 2.5 pts

How many elements does this vector have?

```
x <- c( 5 , 7 , 7 , 5 , 8 )
```

```
c001.p009.00.q003
```

Correct!

5

Correct Answer

5

Question 2**2.5 / 2.5 pts**

Suppose

$$X = \begin{bmatrix} 5 \\ -4 \\ 3 \\ -2 \\ 9 \end{bmatrix} \quad Y = \begin{bmatrix} 5 \\ -8 \\ 5 \\ 4 \\ 9 \end{bmatrix}$$

Determine $\langle X, Y \rangle$.

c001.p010.00.q006

Correct!

145

Correct Answer

145

Question 3**2.5 / 2.5 pts**

Given the following matrix:

$$X = \begin{bmatrix} 9 & 2 & 4 & 8 & 8 \\ 4 & 5 & 3 & 3 & 10 \\ 3 & 4 & 3 & 9 & 2 \\ 1 & 3 & 2 & 7 & 7 \end{bmatrix}$$

Determine $X_{1,1}$

c001.p011.00.q003

Correct!**Correct Answer**

9

Question 4**2.5 / 2.5 pts**

Given the following matrix:

$X =$

8	6	3	3	3
10	6	4	2	2
7	7	4	2	7
2	5	2	5	8

Suppose you construct a new matrix $Y = X^T$.Determine $Y_{4,1}$

c001.p012.00.q002

Correct!**Correct Answer**

3

Quiz Score: 10 out of 10