

MTH501 - Linear Algebra (Quiz 04)

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Question # 1 of 10 (Start time: 10:57:14 AM, 08 July 2025)

Total Marks: 1

The _____ vector is orthogonal to every vector in \mathbb{R}^n

Select the correct option

Reload Math Equations

<input type="radio"/>	normalized
<input type="radio"/>	none of these
<input checked="" type="radio"/>	zero
<input type="radio"/>	unit

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 10:57:46 AM, 08 July 2025)

Total Marks: 1

If

$$s = \{u_1 + u_2 + \dots + u_p\}$$

is an orthogonal basis for a subspace W of

$$\mathbb{R}^n$$

Then each y in W can be uniquely expressed as a linear combination of

$$u_1 + u_2 + \dots + u_p$$

That is

$$c_1 u_1 + c_2 u_2 + \dots + c_p u_p$$

Where

$$\frac{y \cdot u_j}{u_j \cdot u_j}$$

Select the correct option

Reload Math Equations

<input checked="" type="radio"/>	True
<input type="radio"/>	False

Click to Save Answer & Move to Next Question

Question # 3 of 10 (Start time: 10:58:21 AM, 08 July 2025)

Total Marks: 1

A vector whose length is 1 is called -----

Select the correct option

 Reload Math Equations

<input checked="" type="radio"/>	Unit Vector
<input type="radio"/>	Identity Vector

Click to Save Answer & Move to Next Question

Question # 4 of 10 (Start time: 10:58:42 AM, 08 July 2025)

Total Marks: 1

Two vectors u and v are orthogonal to each other if -----.

Select the correct option

<input checked="" type="radio"/>	$u \cdot v = 0$
<input type="radio"/>	$u + v = 0$
<input type="radio"/>	$u \cdot v = 1$
<input type="radio"/>	$u - v = 0$

Click to Save Answer & Move to Next Question

Question # 5 of 10 (Start time: 10:59:13 AM, 08 July 2025)

Total Marks: 1

$7x + 2y = 16$ $-21x - 6y = 24$ The above system has a _____ solution.

Select the correct option

<input type="radio"/>	unique
<input type="radio"/>	trivial
<input type="radio"/>	consistent
<input checked="" type="radio"/>	inconsistent

[Click to Save Answer & Move to Next Question](#)

Question # 6 of 10 (Start time: 10:59:47 AM, 08 July 2025)

Total Marks: 1

Let V be an vector space, and let W be a subset of V . What does it mean when we say that W is closed under addition?

Select the correct option

[Reload Math Equations](#)

<input checked="" type="radio"/>	$W(x + y) = Wx + Wy$ for every two vectors x and y
<input type="radio"/>	Whenever x and y are in V , then $x+y$ is in V

[Click to Save Answer & Move to Next Question](#)

Question # 7 of 10 (Start time: 11:00:15 AM, 08 July 2025)

Total Marks: 1

How many subspaces does \mathbb{R}^2 have?

Select the correct option



- | | |
|----------------------------------|---|
| <input checked="" type="radio"/> | Infinitely many |
| <input type="radio"/> | $0, \mathbb{R} \times 0, 0 \times \mathbb{R}, \mathbb{R}^2$ |
| <input type="radio"/> | 0 and \mathbb{R}^2 |
| <input type="radio"/> | None of these |

[Click to Save Answer & Move to Next Question](#)

Question # 8 of 10 (Start time: 11:00:47 AM, 08 July 2025)

Total Marks: 1

Which of the following set of vectors is an orthogonal set?

Select the correct option

- | | |
|----------------------------------|--------------------------|
| <input checked="" type="radio"/> | $(1, 1, 1); (1, 0, -1)$ |
| <input type="radio"/> | $(1, 1, 0); (1, 0, -1)$ |
| <input type="radio"/> | $(1, 0, 1); (-1, 0, -1)$ |
| <input type="radio"/> | $(0, 1, 1); (1, 0, -1)$ |

[Click to Save Answer & Move to Next Question](#)

Question # 9 of 10 (Start time: 11:01:11 AM, 08 July 2025)

Total Marks: 1

If the columns of a matrix are _____ then the matrix is invertible.

Select the correct option

<input type="radio"/>	linearly dependent
<input checked="" type="radio"/>	linearly independent

[Click to Save Answer & Move to Next Question](#)

Question # 10 of 10 (Start time: 11:01:29 AM, 08 July 2025)

Total Marks: 1

Two vectors are _____ if at least one of the vector is a multiple of the other

Select the correct option

<input checked="" type="radio"/>	linearly dependent
<input type="radio"/>	linearly independent

[Click to Save Answer & Move to Next Question](#)

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