



Question # 1 of 10 ( Start time: 12:58:10 PM, 27 August 2021 )

T

For an inner product space  $\langle x+y, z \rangle = \dots\dots\dots$

Solved by M@I!k

Select the correct option

- $\langle x, z \rangle - \langle y, z \rangle$
- None of these
- $\langle x, z \rangle + \langle y, z \rangle$
- $\langle x, z \rangle \cdot \langle y, z \rangle$

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MC200204868: MUHAMMAD RIZWAN

Time Left 87 sec(s)

MTH641:Quiz-3

Quiz Start Time: 12:35 PM, 27 August 2021

Question # 2 of 10 ( Start time: 12:37:03 PM, 27 August 2021 )

Total Marks: 1

In an inner product space  $X$  over the field of Real numbers, for all  $x, y$  in  $X$  and  $\alpha \in F$ , then  $(x, \alpha y) =$

Select the correct option

Reveal Math Equations

- $(\alpha x, y)$
- $\alpha(x, y)$



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Every complete Inner product space is -----.

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Select the correct option



- Euclidean space
- Complex space
- Banach space
- Hilbert space 

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For an inner product space defined on a real vector space  $\langle x, y \rangle = \dots\dots\dots$

Select the correct option

 Reload Math Equations



$\langle x, y \rangle$



$\langle -y, x \rangle$



$\langle y, x \rangle$



$\langle y, -x \rangle$



MC200204866: MUHAMMAD RIZWAN

Time Left 88 (sec)

MTH641:Quiz-3

Quiz Start Time: 12:35 PM, 27 August 2021

Question # 6 of 10 ( Start time: 12:40:43 PM, 27 August 2021 )

Total Marks: 1

Which of the following is a condition of an inner product space?

Select the correct option

Reveal Math Equations

- $(x, y) = \overline{(x, y)}$
- $(\alpha x, y) = (\alpha, y)$
- $(x, \alpha x) > 0$
- $(\alpha x + y, z) = (\alpha x, z) + \alpha (y, z)$

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A hilbert space is a /an.....

Select the correct option



Incomplete norm space



complete norm space



complete Inner product space



Incomplete Inner product space

Let  $(V, \langle \cdot, \cdot \rangle)$  be an inner product space over a field  $F$ , then .....

Select the correct option

Reload Math Equations

- $\langle x, \alpha \cdot y \rangle = \bar{\alpha} \langle y, x \rangle, \quad \forall x, y \in V, \alpha \in F.$
- $\langle x, \alpha \cdot y \rangle = \bar{\alpha} \langle x, y \rangle, \quad \forall x, y \in V, \alpha \in F.$
- $\langle x, \alpha \cdot y \rangle = \alpha \langle x, y \rangle, \quad \forall x, y \in V, \alpha \in F.$
- $\langle x, \alpha \cdot y \rangle = \bar{\alpha} \langle x, x \rangle, \quad \forall x, y \in V, \alpha \in F.$

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Question # 3 of 10 ( Start time: 01:34:22 PM, 27 August 2021 )

Let  $(V, \langle \cdot, \cdot \rangle)$  be an inner product space over a field  $F$ , then .....

Select the correct option

- $\langle x, \alpha \cdot y \rangle = \bar{\alpha} \langle x, y \rangle, \quad \forall x, y \in V, \alpha \in F.$
- $\langle x, \alpha \cdot y \rangle = \alpha \langle x, y \rangle, \quad \forall x, y \in V, \alpha \in F.$
- $\langle x, \alpha \cdot y \rangle = \bar{\alpha} \langle x, y \rangle, \quad \forall x, y \in V, \alpha \in F.$
- $\langle x, \alpha \cdot y \rangle = \bar{\alpha} \langle y, x \rangle, \quad \forall x, y \in V, \alpha \in F.$



Click to Save Answer





## MTH641:Quiz-3

Question # 5 of 10 ( Start time: 02:08:18 PM, 27 August 2021 )

Let  $(V, \langle \cdot, \cdot \rangle)$  be an inner product space over a field  $F$ , then .....

Select the correct option

- |                                  |  |
|----------------------------------|--|
| <input type="radio"/>            | $\langle x, \alpha \cdot y \rangle = \bar{\alpha} \langle y, x \rangle, \quad \forall x, y \in V, \alpha \in F.$ |
| <input checked="" type="radio"/> | $\langle x, \alpha \cdot y \rangle = \bar{\alpha} \langle x, y \rangle, \quad \forall x, y \in V, \alpha \in F.$ |
| <input type="radio"/>            | $\langle x, \alpha \cdot y \rangle = \bar{\alpha} \langle x, x \rangle, \quad \forall x, y \in V, \alpha \in F.$ |
| <input type="radio"/>            | $\langle x, \alpha \cdot y \rangle = \alpha \langle x, y \rangle, \quad \forall x, y \in V, \alpha \in F.$       |

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BC170405020: AMIR SHEHZAD

Time Left 88 sec(s)

MTH641:Quiz-3

Quiz Start Time: 02:08 PM, 27 August 2021

Question # 5 of 10 ( Start time: 02:11:13 PM, 27 August 2021 )

Total Marks: 1

Which of the following is not a condition of an inner product space?

Select the correct option

Reload Math Equations

- |                                  |  |
|----------------------------------|--|
| <input type="radio"/>            | $\langle x, x \rangle \geq 0$  |
| <input type="radio"/>            | $\langle \alpha x, y \rangle = \alpha \langle x, y \rangle$                            |
| <input checked="" type="radio"/> | $\langle \alpha x + y, z \rangle = \langle x, z \rangle + \alpha \langle y, z \rangle$ |
| <input type="radio"/>            | $\langle x, y \rangle = \overline{\langle y, x \rangle}$                               |

Click on any answer to view the next question

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Question # 4 of 10 ( Start time: 01:35:18 PM, 27 August 2021 )

In an inner product space  $X$  over the field of Complex numbers, for all  $x, y$  in  $X$  and  $\alpha \in F$ , then  $\langle x, \alpha y \rangle =$

Select the correct option

- |                                  |                                     |
|----------------------------------|-------------------------------------|
| <input checked="" type="radio"/> | $\bar{\alpha} \langle x, y \rangle$ |
| <input type="radio"/>            | $\langle \alpha x, y \rangle$       |
| <input type="radio"/>            | $\alpha \langle x, y \rangle$       |
| <input type="radio"/>            | $\langle x, \bar{\alpha} y \rangle$ |

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MC190404002: MUHAMMAD FAISAL

MTH641:Quiz-3

Question # 10 of 10 ( Start time: 01:35:30 PM, 27 August 2021 )

For an element  $x$  belongs to an inner product space,  $\langle x, x \rangle = \dots\dots\dots$

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Select the correct option

- |                                  |                |
|----------------------------------|----------------|
| <input type="radio"/>            | 0              |
| <input type="radio"/>            | less than 0    |
| <input checked="" type="radio"/> | greater than 0 |
| <input type="radio"/>            | infinity       |



Question # 5 of 10 ( Start time: 01:36:46 PM, 27 August 2021 )

For an inner product space  $\langle x+y, z \rangle = \dots\dots\dots$

Select the correct option



$$\langle x, z \rangle - \langle y, z \rangle$$



$$\langle x, z \rangle + \langle y, z \rangle$$



$$\langle x, z \rangle \cdot \langle y, z \rangle$$



None of these



Question # 6 of 10 ( Start time: 01:37:20 PM, 27 August 2021 )

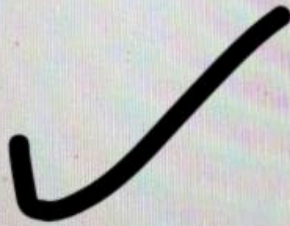
Every Inner Product space is a Metric Space as well.

Select the correct option

False



True



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MC190403915: ZAIB ASHRAF

Time Left 86 sec(s)

MTH641:Quiz-3

Quiz Start Time: 01:17 PM, 27 August 2021

Question # 10 of 10 ( Start time: 01:37:46 PM, 27 August 2021 )

Total Marks: 1

In an inner product space  $X$  over the field of Real numbers, for all  $x, y$  and  $z \in X$  and  $\alpha \in F$ , then  $\langle \alpha x + \beta y, z \rangle =$

Select the correct option

Reload Math Equations

$\alpha \langle x, z \rangle + \beta \langle y, z \rangle$

$\alpha \langle x, z \rangle + \beta \langle y, z \rangle$

[Click to find Answer or Move to Next Question](#)



Question # 7 of 10 ( Start time: 01:38:24 PM, 27 August 2021 )

For an inner product space defined on a real vector space  $\langle x, y \rangle = \dots\dots\dots$

Select the correct option

$\langle -y, x \rangle$

$\langle y, -x \rangle$

$\langle y, x \rangle$

$\langle x, y \rangle$




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Question # 8 of 10 ( Start time: 01:39:03 PM, 27 August 2021 )

Which of the following is not a condition of an inner product space?

Select the correct option

- |                       |  |   |
|-----------------------|--|---|
| <input type="radio"/> | $\langle \alpha x + y, z \rangle = \langle x, z \rangle + \alpha \langle y, z \rangle$ |  |
| <input type="radio"/> |  | $\langle x, x \rangle \geq 0$   |
| <input type="radio"/> | $\langle x, y \rangle = \overline{\langle y, x \rangle}$                               |   |
| <input type="radio"/> |  | $\langle \alpha x, y \rangle = \alpha \langle x, y \rangle$                       |

click to Save Answer & Move to



Question # 9 of 10 ( Start time: 01:40:12 PM, 27 August 2021 )

For all  $x, y$  belongs to an an inner product space

$$\langle \alpha x, y \rangle = \dots\dots\dots$$

Select the correct option

- $\alpha \langle x, -y \rangle$
- $\alpha \langle -x, y \rangle$
- $\alpha \langle x, y \rangle$  ✓
- $\alpha \langle y, x \rangle$

Click to Save Answer / Move to Next



Question # 10 of 10 ( Start time: 01:41:14 PM, 27 August 2021 )

For an element  $x$  belongs to an inner product space,  $\langle x, x \rangle = \dots\dots\dots$ 

Total Ma

Select the correct option

Reload Math Equatio

- |                                  |                |
|----------------------------------|----------------|
| <input type="radio"/>            | less than 0    |
| <input type="radio"/>            | infinity       |
| <input checked="" type="radio"/> | greater than 0 |
| <input type="radio"/>            | 0              |

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Question # 1 of 10 ( Start time: 12:58:10 PM, 27 August 2021 )

T

For an inner product space  $\langle x+y, z \rangle = \dots\dots\dots$

Select the correct option



$\langle x, z \rangle - \langle y, z \rangle$



None of these



$\langle x, z \rangle + \langle y, z \rangle$



$\langle x, z \rangle \cdot \langle y, z \rangle$



MC190202018: FAHID AMIN

MTH641: Quiz-3

Question # 3 of 10 ( Start time: 12:59:26 PM, 27 August 2021 )

For all  $x, y$  belongs to an an inner product space

$\langle \alpha x, y \rangle = \dots$

Select the correct option

- $\alpha \langle y, x \rangle$
- $\alpha \langle x, -y \rangle$
- $\alpha \langle x, y \rangle$
- $\alpha \langle -x, y \rangle$

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MC190202018: FAHID AMIN

MTH641: Quiz-3

Question # 4 of 10 ( Start time: 01:00:03 PM, 27 August 2021 )

Which of the following is a condition of an inner product space?

Select the correct option

- $\langle x, y \rangle = \overline{\langle x, y \rangle}$
- $\langle \alpha x + y, z \rangle = \langle x, z \rangle + \alpha \langle y, z \rangle$
- $\langle x, x \rangle \geq 0$
- $\langle \alpha x, y \rangle = \langle x, \alpha y \rangle$





MC190202018: FAHID AMIN

MTH641: Quiz-3

Question # 5 of 10 ( Start time: 01:00:56 PM, 27 August 2021 )

A hilbert space is a /an.....

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Select the correct option

complete Inner product space



complete norm space

Incomplete Inner product space

Incomplete norm space



1:03

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MC190202018: FAHID AMIN

Quiz Sta

MTH641:Quiz-3

Question # 8 of 10 ( Start time: 01:03:36 PM, 27 August 2021 )

In an inner product space  $X$  over the field of Complex numbers, for all  $x, y \in X$  and  $\alpha \in F$ , then  $(x, \alpha y) =$

Select the correct option

$\alpha(x, y)$

$\bar{\alpha}(x, y)$

$(\alpha x, y)$

$(x, \bar{\alpha}y)$

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For all  $x, y$  belongs to an inner product space

$$\langle \alpha x, y \rangle = \dots\dots\dots$$

Select the correct option

- $\alpha \langle -x, y \rangle$
- $\alpha \langle x, -y \rangle$
- $\alpha \langle x, y \rangle$
- $\alpha \langle y, x \rangle$

Click to Save Answer & Move

Question # 9 of 10 ( Start time: 01:05:05 PM, 27 August 2021 )

Every complete Inner product space is \_\_\_\_\_.

Select the correct option

- |                       |                 |
|-----------------------|-----------------|
| <input type="radio"/> | Complex space   |
| <input type="radio"/> | Banach space    |
| <input type="radio"/> | Hilbert space ✓ |
| <input type="radio"/> | Euclidean space |



Question # 8 of 10 ( Start time: 01:05:38 PM, 27 August 2021 )

10

In an Inner Product space say  $X$ , if the sequences  $\{x_n\}$  and  $\{y_n\}$  are Cauchy, then  $\langle x_n, y_n \rangle$  is—

Select the correct option

Reload Ma



not necessarily a Cauchy Sequence in  $X$



necessarily a Cauchy Sequence in  $F$



necessarily a Cauchy Sequence in  $X$



not necessarily a Cauchy Sequence in  $F$

Click to Save Answer & Move to Next Que

Question # 10 of 10 ( Start time: 01:06:08 PM, 27 August 2021 )

In an Inner Product space say  $X$ , for any sequences  $\{x_n\}$  and  $\{y_n\}$ , if  $x_n \rightarrow x$  and  $y_n \rightarrow y$ , then it ———.

Select the correct option

- |                                  |   |
|----------------------------------|---|
| <input type="radio"/>            | $\Rightarrow \langle x_n, y_n \rangle \rightarrow \langle x, y \rangle$   |
| <input type="radio"/>            | $\Rightarrow \langle x_n, y_n \rangle = \langle x, y \rangle$             |
| <input checked="" type="radio"/> | $\Rightarrow \langle x_n, y_n \rangle \rightarrow \langle x, y \rangle$ ✓ |
| <input type="radio"/>            | $\Rightarrow \langle x_n, y_n \rangle \neq \langle x, y \rangle$          |





In an Inner Product space say  $X$ , for any sequences  $\{x_n\}$  and  $\{y_n\}$ , if  $x_n \rightarrow x$  and  $y_n \rightarrow y$ , then it ———.

Select the correct option



$$\Rightarrow \langle x_n, y_n \rangle \neq \langle x, y \rangle$$



$$\Rightarrow \langle x_n, y_n \rangle = \langle x, y \rangle$$



$$\Rightarrow \langle x_n, y_n \rangle \rightarrow \langle x, y \rangle$$



$$\Rightarrow \langle x_n, y_n \rangle \rightarrow \langle x, y \rangle$$

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Question # 10 of 10 ( Start time: 01:07:51 PM, 27 August 2021 )

In an inner product space  $X$  over the field of Complex numbers, for all  $x, y \in X$  and  $\alpha \in F$ , then  $\langle x, \alpha y \rangle =$

Select the correct option

- |                                  |                                     |
|----------------------------------|-------------------------------------|
| <input type="radio"/>            | $\langle \alpha x, y \rangle$       |
| <input type="radio"/>            | $\langle x, \bar{\alpha} y \rangle$ |
| <input type="radio"/>            | $\alpha \langle x, y \rangle$       |
| <input checked="" type="radio"/> | $\bar{\alpha} \langle x, y \rangle$ |

[Click to Save Answer & Move](#)



Every Inner Product space is a Metric Space as well.

Select the correct option

False



True



Click to Save Answer & Mark



Question # 6 of 10 ( Start time: 01:03:18 PM, 27 August 2021 )

Which of the following is a condition of an inner product space?

Select the correct option

Relo

- |                       |  |
|-----------------------|--|
| <input type="radio"/> | $\langle \alpha x + y, z \rangle = \langle x, z \rangle + \alpha \langle y, z \rangle$ |
| <input type="radio"/> | $\langle x, x \rangle \geq 0$  |
| <input type="radio"/> | $\langle x, y \rangle = \overline{\langle x, y \rangle}$                               |
| <input type="radio"/> | $\langle \alpha x, y \rangle = \langle x, \alpha y \rangle$                            |



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MC200203376: MAAZ

Time Left 84 sec(s)

MTH641-Quiz-3

Quiz Start Time: 12:35 PM, 27 August 2021

Question # 8 of 10 ( Start time: 12:43:25 PM, 27 August 2021 )

Total Marks: 1

Every complete inner product space is ———.

Select the correct option

Related Math Equations

- Complex space
- Banach space
- Hilbert space
- Euclidean space

Correct! Good Answer! (1/1) (100%) (0:00:00)



MC200204868: MUHAMMAD RIZWAN

Time Left 85 (sec)

MTH641:Quiz-3

Quiz Start Time: 12:35 PM, 27 August 2021

Question # 10 of 10 ( Start time: 12:43:34 PM, 27 August 2021 )

Total Marks: 1

For an inner product space  $\langle x+y, z \rangle = \dots\dots\dots$

Select the correct option

- $\langle x, z \rangle + \langle y, z \rangle$
- $\langle x, z \rangle \cdot \langle y, z \rangle$
- $\langle x, z \rangle - \langle y, z \rangle$
- None of these

Submit Answer | Previous Question





In an Inner Product space say  $X$ , for any sequences  $\{x_n\}$  and  $\{y_n\}$ , if  $x_n \rightarrow x$  and  $y_n \rightarrow y$ , then it -----.

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Select the correct option

[Reload Math Equations](#)



$$\implies \langle x_n, y_n \rangle \rightarrow \langle x, y \rangle$$



$$\implies \langle x_n, y_n \rangle = \langle x, y \rangle$$



$$\implies \langle x_n, y_n \rangle \neq \langle x, y \rangle$$



$$\nRightarrow \langle x_n, y_n \rangle \rightarrow \langle x, y \rangle$$

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

MC200203376: MAAZ

Time Left 87 sec(s)

MTH641: Quiz-3

Quiz Start Time: 12:35 PM, 27 August 2021

Question # 9 of 10 ( Start time: 12:44:12 PM, 27 August 2021 )

Total Marks: 1

A hilbert space is a /an.....

Select the correct option

- Incomplete norm space
- complete norm space
- complete Inner product space ✓
- Incomplete Inner product space

Go to Previous Question | Go to Next Question

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In an Inner Product space say  $X$ , if the sequences  $\{x_n\}$  and  $\{y_n\}$  are Cauchy, then  $\langle x_n, y_n \rangle$  is -----.

Select the correct option

 Reload Math Equations



necessarily a Cauchy Sequence in  $X$



not necessarily a Cauchy Sequence in  $F$



necessarily a Cauchy Sequence in  $F$



not necessarily a Cauchy Sequence in  $X$

Click to Save Answer & Move to Next Question



MC190400398: IMRAN SAEED BHUTTA

Time Left 87 sec(s)

MTH641:Quiz-3

Quiz Start Time: 12:44 PM, 27 August 2021

Question # 1 of 10 ( Start time: 12:44:17 PM, 27 August 2021 )

Total Marks: 1

In an inner product space  $X$  over the field of Complex numbers, for all  $x, y \in X$  and  $\alpha \in F$ , then  $\langle x, \alpha y \rangle =$

Select the correct option

Reload Math Equations

- $\overline{\alpha}\langle x, y \rangle$
- $\langle \alpha x, y \rangle$
- $\alpha\langle x, y \rangle$
- $\langle x, \overline{\alpha}y \rangle$

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MC200203376: MAAZ

Time Left 86  
sec(s)

MTH641-Quiz-3

Quiz Start Time: 12:35 PM, 27 August 2021

Question # 10 of 10 ( Start time: 12:44:54 PM, 27 August 2021 )

Total Marks: 1

Which of the following is not a condition of an inner product space?

Select the correct option

Related Math Equations

- |                                  |   |
|----------------------------------|---|
| <input type="radio"/>            | $(\alpha x, y) = \alpha (x, y)$                           |
| <input type="radio"/>            | $(x, x) \geq 0$   |
| <input checked="" type="radio"/> | $(\alpha x + \beta y, z) = (\alpha x, z) + \alpha (y, z)$ |
| <input type="radio"/>            | $(x, y) = \overline{(y, x)}$                              |

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In an inner product space  $X$  over the field of Real numbers, for all  $x, y \in X$  and  $\alpha \in F$ , then  $\langle x, \alpha y \rangle =$

Select the correct option

 Reload Math Equations

$\alpha \langle x, y \rangle$



Not sure

$\langle \alpha x, y \rangle$

Click to Save Answer & Move to Next Question

For an inner product space  $\langle x+y, z \rangle = \dots\dots\dots$

Select the correct option



None of these



$\langle x, z \rangle + \langle y, z \rangle$



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$\langle x, z \rangle - \langle y, z \rangle$



$\langle x, z \rangle \cdot \langle y, z \rangle$



MC190400398: IMRAN SAEED BHUTTA

Time Left 88  
sec(s)

MTH641:Quiz-3

Quiz Start Time: 12:44 PM, 27 August 2021

Question # 2 of 10 ( Start time: 12:45:45 PM, 27 August 2021 )

Total Marks: 1

In an Inner Product space say  $X$ , if the sequences  $\{x_n\}$  and  $\{y_n\}$  are Cauchy, then  $(x_n, y_n)$  is ———.

Select the correct option

[Reload Math Equations](#)

- |                       |  |
|-----------------------|--|
| <input type="radio"/> | not necessarily a Cauchy Sequence in $F$ |
| <input type="radio"/> | necessarily a Cauchy Sequence in $X$     |
| <input type="radio"/> | necessarily a Cauchy Sequence in $F$     |
| <input type="radio"/> | not necessarily a Cauchy Sequence in $X$ |

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Question # 8 of 10 ( Start time: 12:46:29 PM, 27 August 2021 )

Total Marks: 1

In an inner product space  $X$  over the field of Real numbers, for all  $x, y$  and  $z \in X$  and  $\alpha \in F$ , then  $\langle \alpha x + \beta y, z \rangle =$

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Select the correct option

 Reload Math Equations



$$\alpha \langle x, z \rangle + \bar{\beta} \langle y, z \rangle$$



$$\alpha \langle x, z \rangle + \beta \langle y, z \rangle$$





MC190400398: IMRAN SAEED BHUTTA

Time

MTH641:Quiz-3

Quiz Start Time: 12:44 PM, 27

Question # 3 of 10 ( Start time: 12:46:53 PM, 27 August 2021 )

For all  $x, y$  belongs to an an inner product space

$$\langle \alpha x, y \rangle = \dots\dots\dots$$

Select the correct option

Reload

- $\alpha \langle x, y \rangle$  ✓
- $\alpha \langle x, -y \rangle$
- $\alpha \langle -x, y \rangle$
- $\alpha \langle y, x \rangle$

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Question # 9 of 10 ( Start time: 12:47:30 PM, 27 August 2021 )

Total Marks: 1

Every Inner Product space is a Metric Space as well.

Select the correct option

 Reload Math Equations

True



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False



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MC190400398: IMRAN SAEED BHUTTA

Time Left 89 sec(s)

MTH641:Quiz-3

Quiz Start Time: 12:44 PM, 27 August 2021

Question # 4 of 10 ( Start time: 12:48:30 PM, 27 August 2021 )

Total Marks: 1

In an Inner Product space say  $X$ , for any sequences  $\{x_n\}$  and  $\{y_n\}$ , if  $x_n \rightarrow x$  and  $y_n \rightarrow y$ , then it ———.

Select the correct option

[Reload Math Equations](#)

$\rightarrow \langle x_n, y_n \rangle = \langle x, y \rangle$

$\rightarrow \langle x_n, y_n \rangle \rightarrow \langle x, y \rangle$

$\rightarrow \langle x_n, y_n \rangle = \langle x, y \rangle$

$\rightarrow \langle x_n, y_n \rangle \rightarrow \langle x, y \rangle$

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For all  $x, y$  belongs to an an inner product space

$$\langle \alpha x, y \rangle = \dots\dots\dots$$

Select the correct option

 Reload Math Equations



$$\alpha \langle -x, y \rangle$$



$$\alpha \langle x, -y \rangle$$



$$\alpha \langle y, x \rangle$$



$$\alpha \langle x, y \rangle$$

