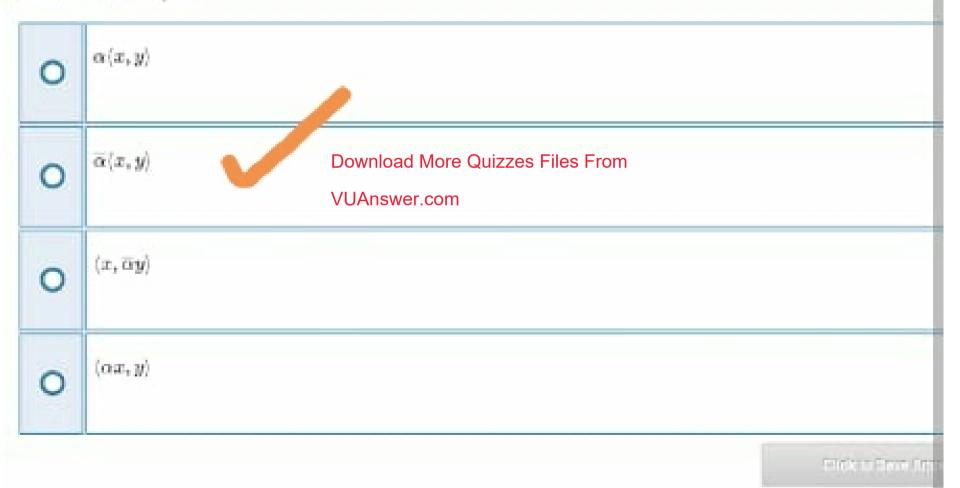
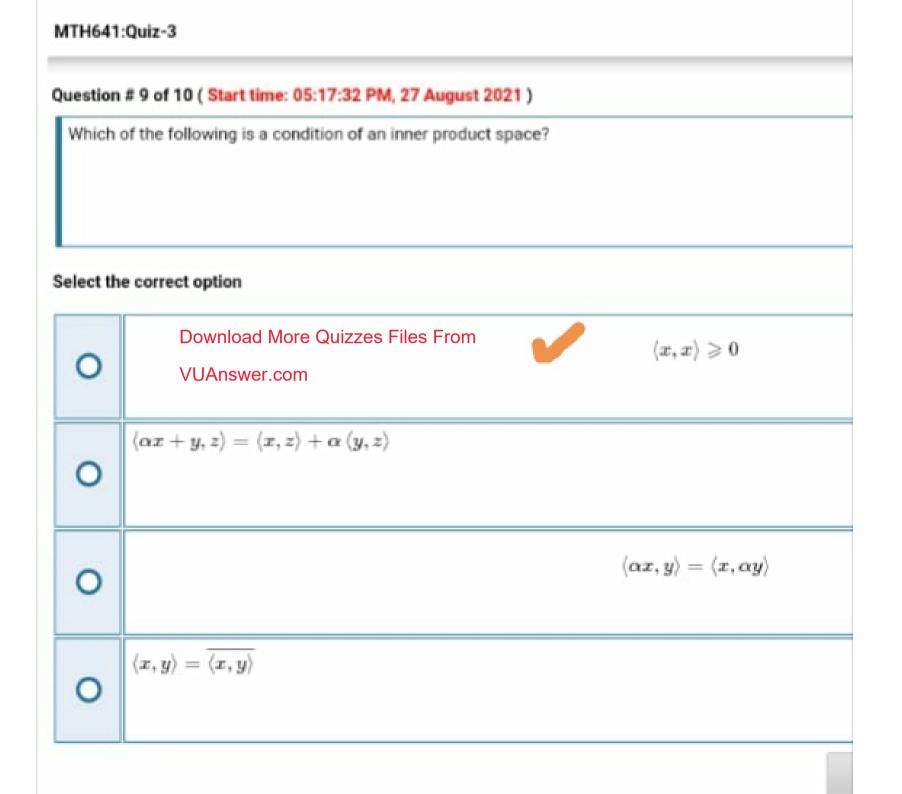


Quiz Starl

# Question # 10 of 10 ( Start time: 08:47:43 PM, 27 August 2021 )

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







# Question # 6 of 10 ( Start time: 04:59:45 PM, 27 August 2021 )

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

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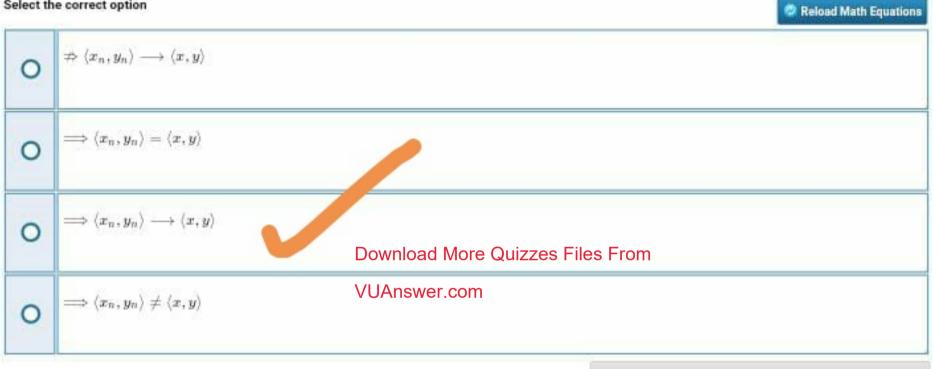
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0	not necessarily a Cauchy Sequence in ${\cal F}$
0	necessarily a Cauchy Sequence in $X$
0	necessarily a Cauchy Sequence in $F$
0	not necessarily a Cauchy Sequence in $X$

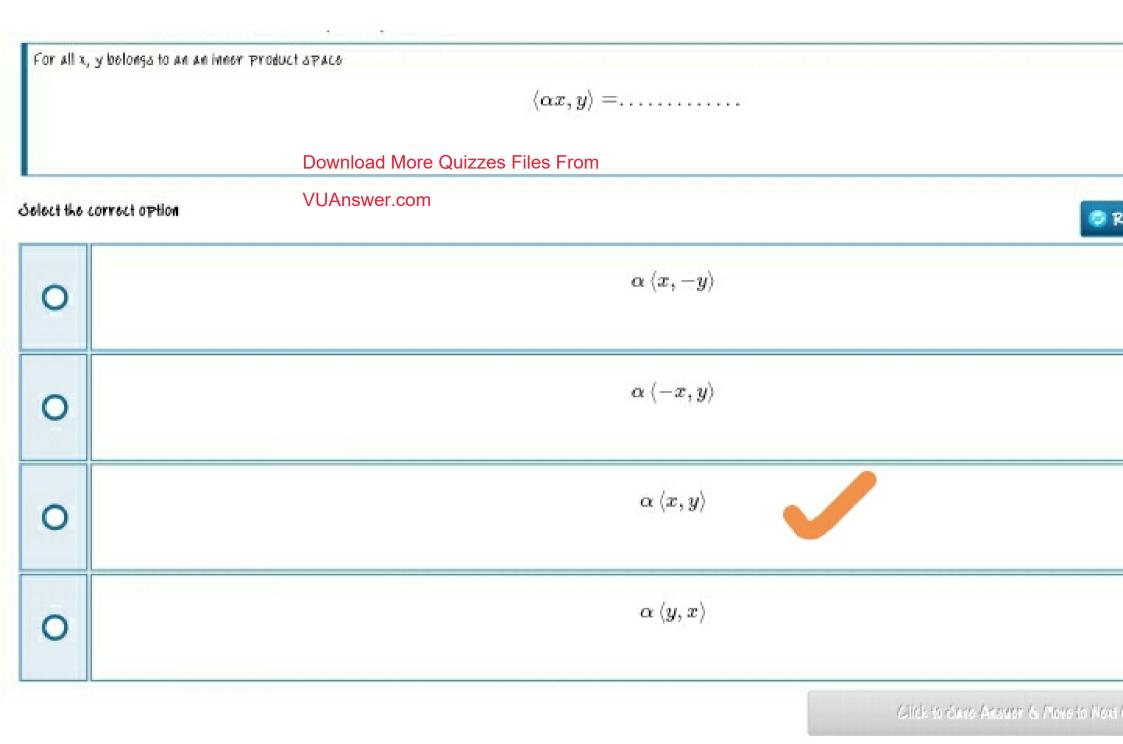
#### Question # 9 of 10 ( Start time: 04:53:59 PM, 27 August 2021 )

In an Inner Product space say  $X_{i}$  for any sequences  $\{x_{n}\}$ and  $\{y_n\}$  , if  $x_n \longrightarrow x$  and  $y_n \longrightarrow y$ , then it ——.

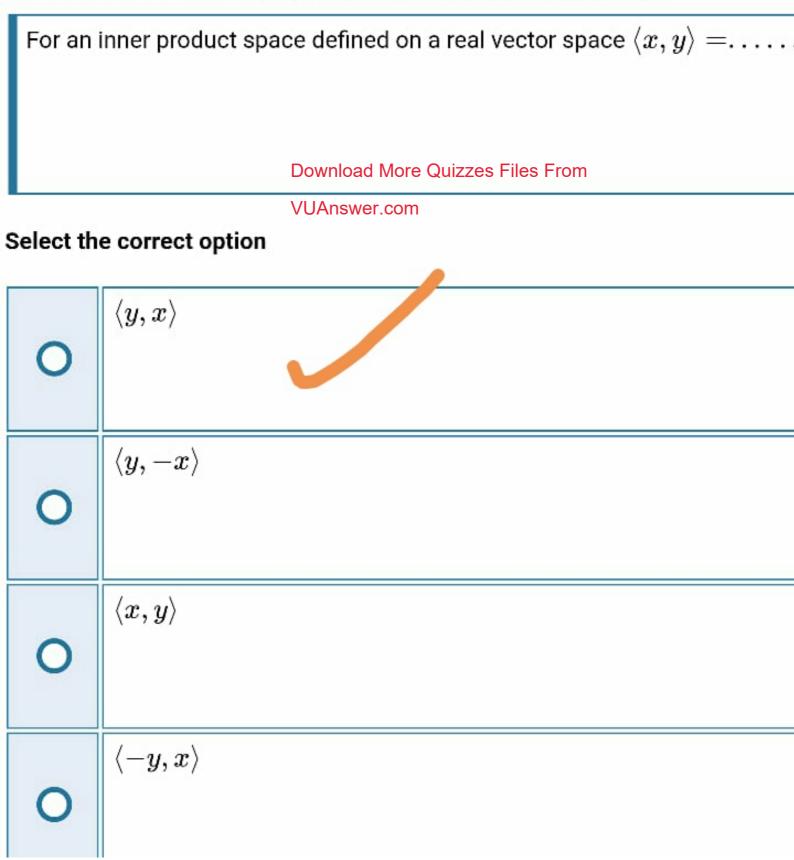
#### Select the correct option





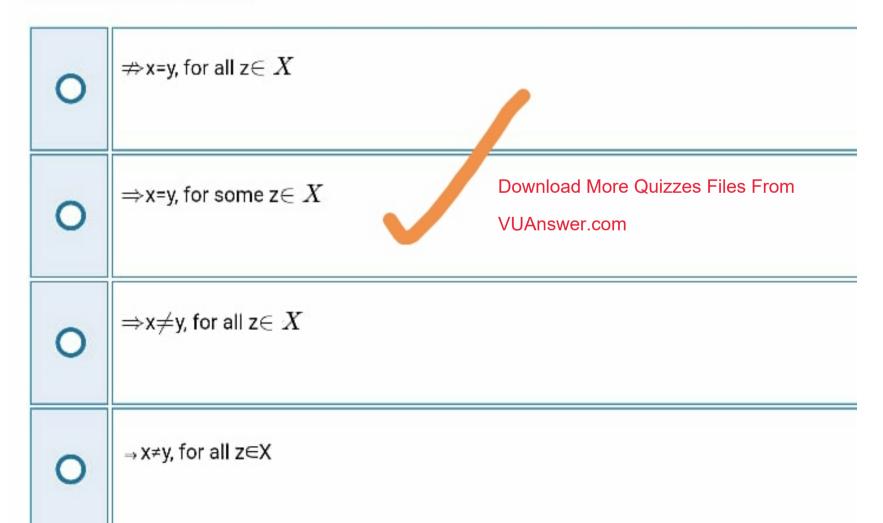


# Question # 4 of 10 ( Start time: 04:57:58 PM, 27 August 2021 )



# Question # 2 of 10 ( Start time: 04:56:21 PM, 27 August 2021 )

In an inner product space X over the field F, $\langle x,z
angle=\langle y,z
angle$ 



# Question # 1 of 10 ( Start time: 04:54:41 PM, 27 August 2021 )

For all x, y belongs to an an inner product space	
	$\langle lpha x, y  angle = \ldots \ldots$
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Question # 8 of 10 ( Start time: 04:53:04 PM, 27 August 2021 )

AI	A hilbert space is a /an		
	Download More Quizzes Files From		
Select th	e correct option		
0	Incomplete Inner product space		
0	complete norm space		
0	Incomplete norm space		
0	complete Inner product space		

Question # 7 of 10	Start time:	04:51:47 PM,	27 August 2021 )	
--------------------	-------------	--------------	------------------	--

For an element x belongs to an inner product space ,  $\langle x,x
angle=\ldots\ldots$ 

Select the correct option

Select th	e correct option		🗢 Reload Math Equations
0	less than 0		
0	infinity		
0	greater than 0	Download More Quizzes Files From VUAnswer.com	
0	0		

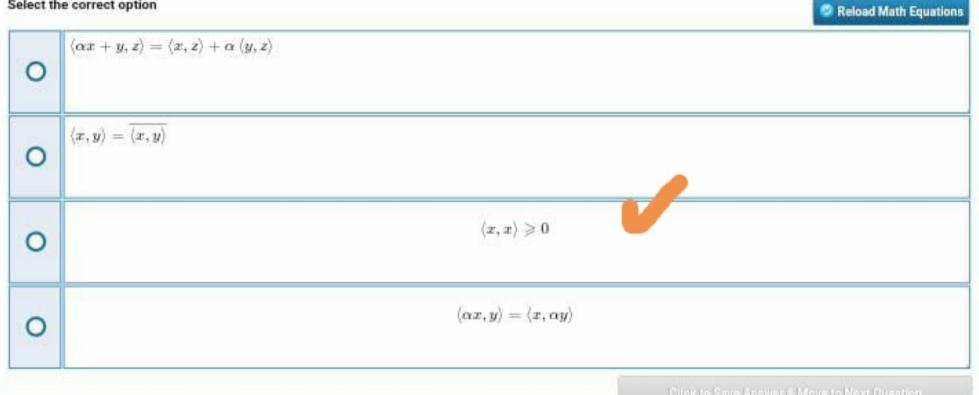
#### Question # 5 of 10 ( Start time: 04:49:52 PM, 27 August 2021 )

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

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Select the correct option



# Question # 4 of 10 ( Start time: 04:49:05 PM, 27 August 2021 ) Total Marks: 1 Every complete Inner product space is ------. Select the correct option Reload Math Equations Euclidean space 0 Hilbert space **Download More Quizzes Files From** 0 VUAnswer.com Banach space 0 Complex space 0

Click to Save Answer & More to Next Question



uestion	# 3 of 10 ( Start time: 04:48:12 PM, 27 August 2021 )	Total Marks: 1
the second s	nner Product space say $X,\;$ if the sequences $\{x_n\}$ $y_n\}$ are Cauchy, then $\langle x_n,y_n angle$ is ———.	
	Download More Quizzes Files From	
elect th	VUAnswer.com	😒 Reload Math Equations
0	not necessarily a Cauchy Sequence in $X$	
0	not necessarily a Cauchy Sequence in ${\cal F}$	
0	necessarily a Cauchy Sequence in F	
0	necessarily a Cauchy Sequence in $X$	
		Chief in Calls America is Manager Based and

Click to Save Answer & Move to Next Question

MTH641	

sec(a)

Guiz Start Time: 04:35 PM, 27 August 2021

Duestion	# 6 of 10 (Start time: 04:39:58 PM, 27 August 2021)	Total Marks: 1
Αł	nilbert space is a /an	
	Download More Quizzes Files From	
Salest th	VUAnswer.com	
0	complete Inner product space	
0	complete norm space	
0	Incomplete norm space	
0	Incomplete Inner product space	

THE REPORT OF A DAY O

MTH641:Quiz-3			Guiz Start Time: 04:35 PM, 27 August 2021	
	# # of 10 ( Shart time: 04: 42:23 PM, hner Product space is a Metric Space		Total Marke: 1	
	e correct option False		👁 Helsed Meth Equations	
0	True	Download More Quizzes Files From		
0		VUAnswer.com		

Question # 2 of 10 ( Start time: 04:46:43 PM, 27 August 2021 )		Total Marks: 1
For an	n inner product space defined on a real vector space $\langle x,y angle = \ldots \ldots$	
Select th	the correct option	🖉 Reload Math Equations
0	$\langle y,x angle$	
0	$\langle y, -x  angle$	
0	$\langle x,y angle$	
0	$\langle -y,x \rangle$	
		Click to Save Answer & Move to Next Question

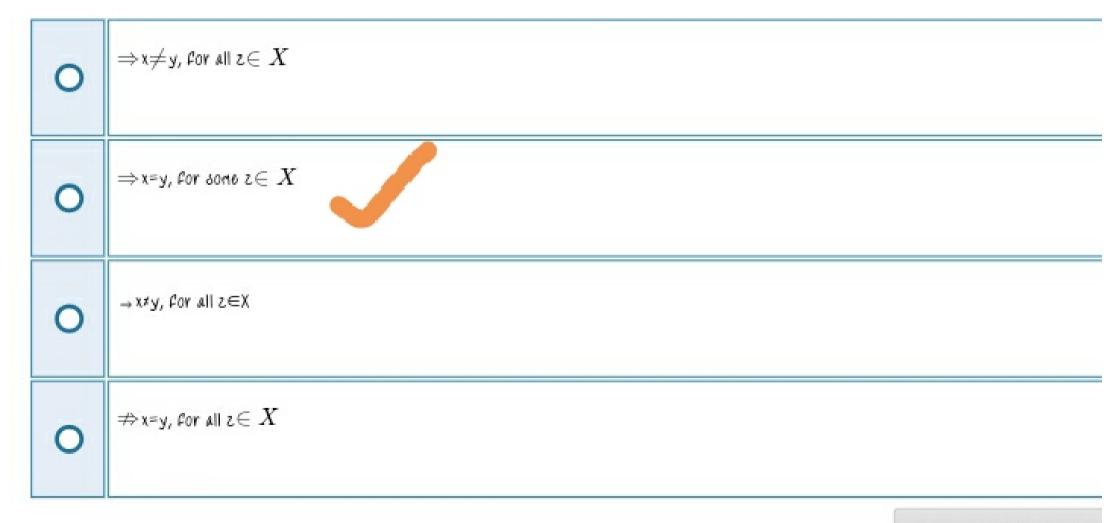
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#### Question # 10 of 10 (Start tine: 04:39:31 PM, 27 August 2021)

In an inner product space X over the field F ,  $\langle x,z
angle=\langle y,z
angle$ 

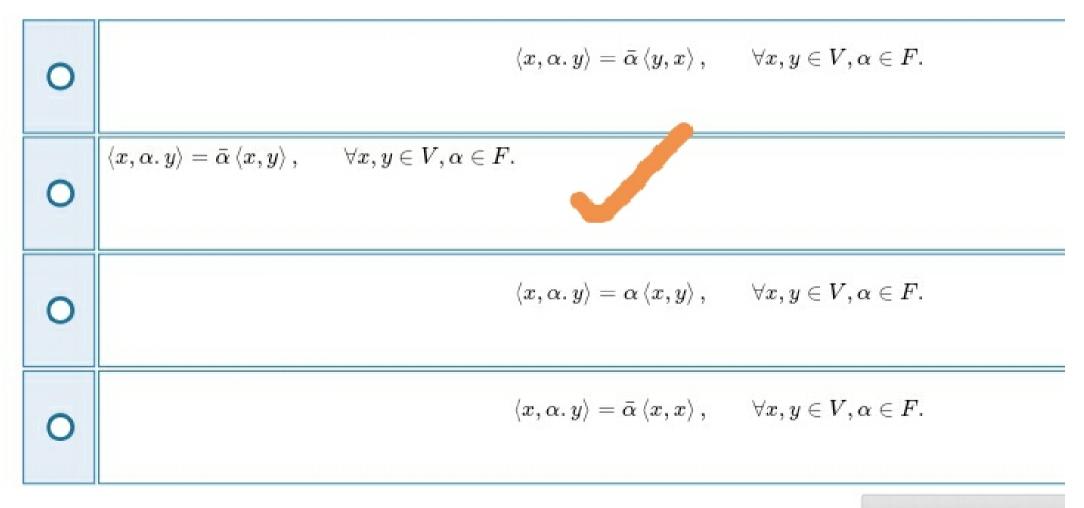
## Select the correct option



Glick to GATE AN

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

#### Select the correct option

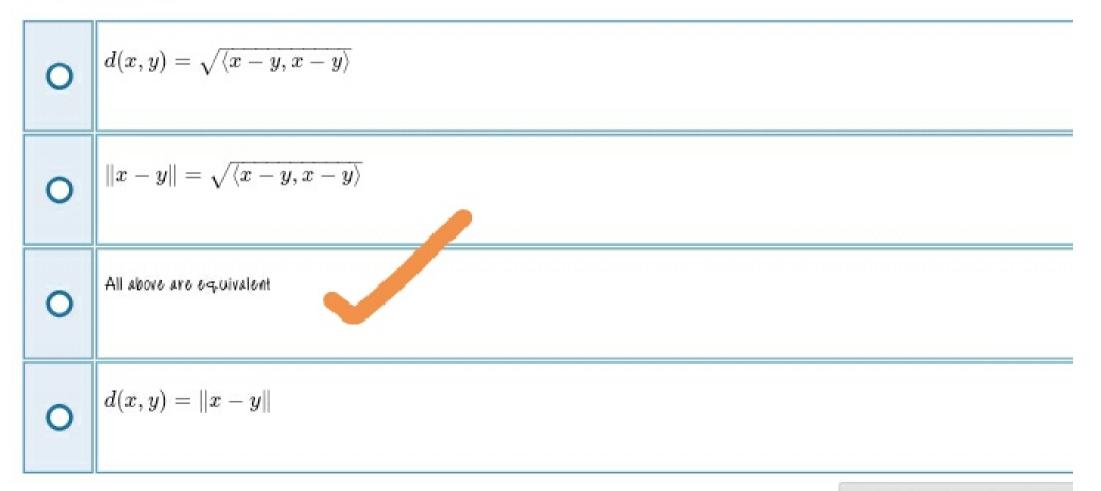


Click to Gave An

Duestion # 3 of 10 (Start time: 04:36:35 PM, 27 August 2021 )		Total Marke: 1
in and ()	rener Prosident space may $X$ , if the sequences $\{x_n\}$ $y_n$ ] are Cauchy, then $(x_n, y_n)$ is	
Select t	he correct option	Helcod Meth Equations
0	not reconstatily a Caucity Sequence in $X$	
0	necessarily a Cauchy Sequence in F	
0	necessarily a Cauchy Sequence in $X$	
0	not necessarily a Cauchy Sequence in F	
	Download More Quizzes Files From	Carry Information Constant Constant
	VUAnswer.com	

## Question # 6 of 10 ( Start time: 04:33:29 PM, 27 August 2021 )

Every Inner product space is a netric space with norn given by:



# Question # 7 of 10 ( Start time: 04:34:19 PM, 27 August 2021 )

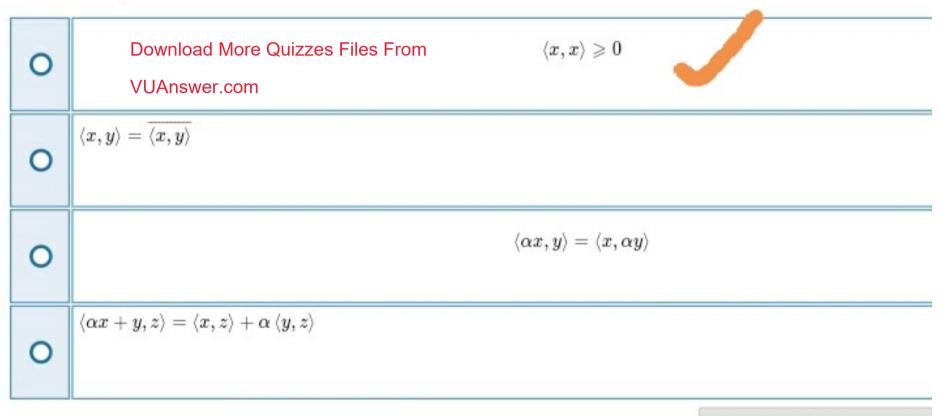
Every Inner Product space is a Metric Space as well.

0	True
0	Falso

#### Question # 8 of 10 ( Start time: 04:35:07 PM, 27 August 2021 )

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

#### Select the correct option



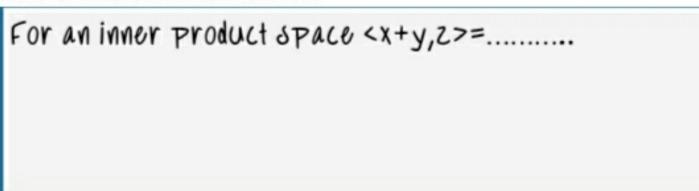
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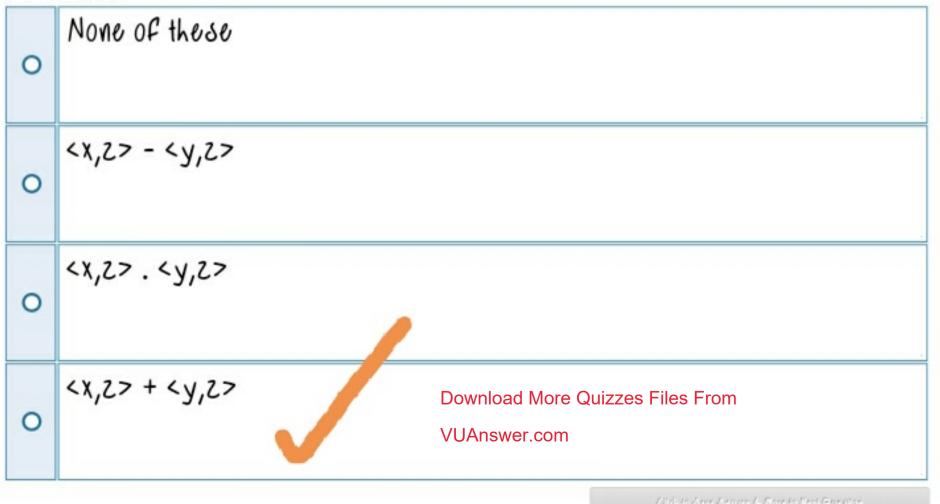
MI #841:GLUIZ-S

GUIZ OTAPT TIME: UG: LS PIN, LI AUGUST LULT

Total Marks: 1







#### Quiz Start Time: 04:12 PM, 27 August 2021

#### Question # 5 of 10 ( Start time: 04:31:46 PM, 27 August 2021 )

```
In an inner product space X over the field of Real numbers, for all x, y and z \in Y, then \langle \alpha x + \beta y, z \rangle = 0
```

#### Select the correct option



Total Marks: 1

ted for the state

In an inner product space X over the field of Real numbers, for  $\mathrm{all} \ \mathrm{x},\mathrm{y} \setminus \mathrm{in} \ \mathrm{X} \setminus \mathrm{and} \ lpha \in F,$  then  $\langle x, lpha y 
angle =$ 

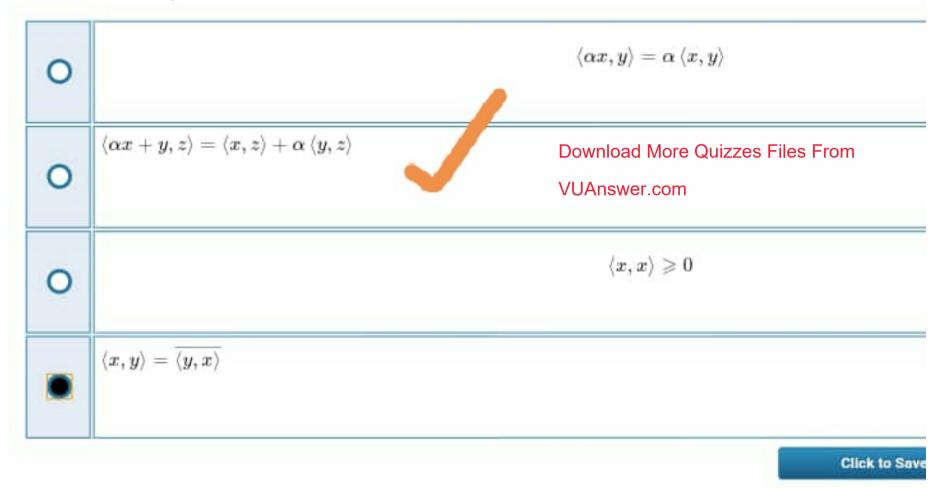
# Select the correct option

0	$lpha\langle x,y angle$
0	$\langle lpha x, y  angle$

Citch to Save

#### Question # 6 of 10 (Start time: 04:17:59 PM, 27 August 2021)

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





# Question # 1 of 10 ( Start time: 04:25:58 PM, 27 August 2021 )

Every complete Inner product apace is				
Soloct the correct option				
0	Hilbert Space			
0	Banach ópaco			
0	Euclidean space			
0	Conplex Space			

Click to Gave Answer 6

# Question # 10 of 10 ( Start time: 04:21:04 PM, 27 August 2021 )

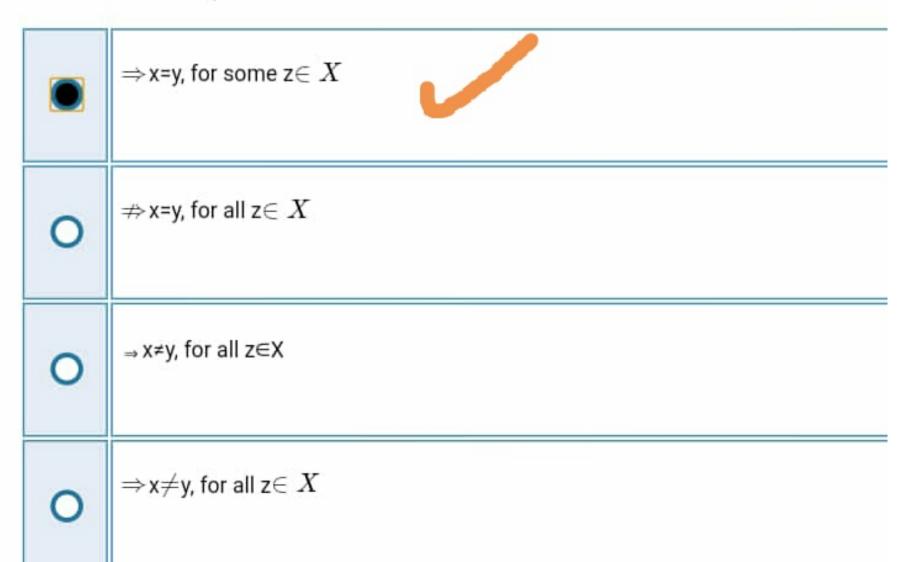
For an element x belongs to an inner product space ,  $\langle x,x
angle=\ldots\ldots$ 

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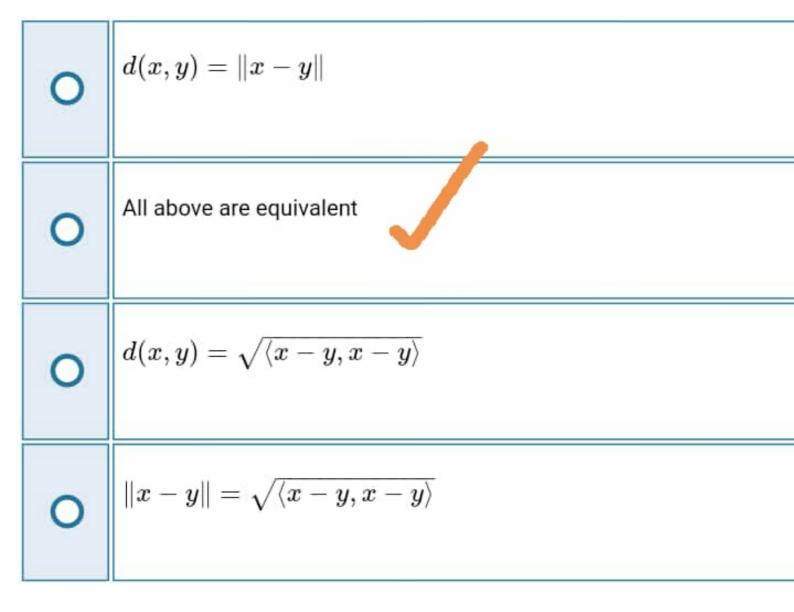
In an inner product space X over the field F,  $\langle x,z
angle=\langle y,z
angle$ 



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Question # 8 of 10 ( Start time: 04:19:40 PM, 27 August 2021 )

Every Inner product space is a metric space with norm given by;



# Question # 9 of 10 ( Start time: 04:20:24 PM, 27 August 2021 )

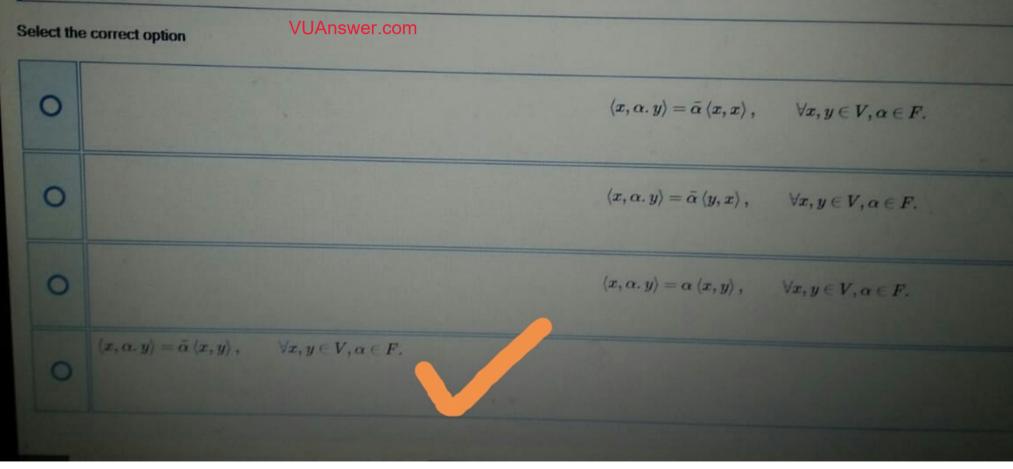
Every complete Inner product space is ------.

0	Euclidean space
0	Hilbert space
0	Complex space
0	Banach space

# Question # 8 of 10 ( Start time: 04:21:56 PM. 27 August 2021 )

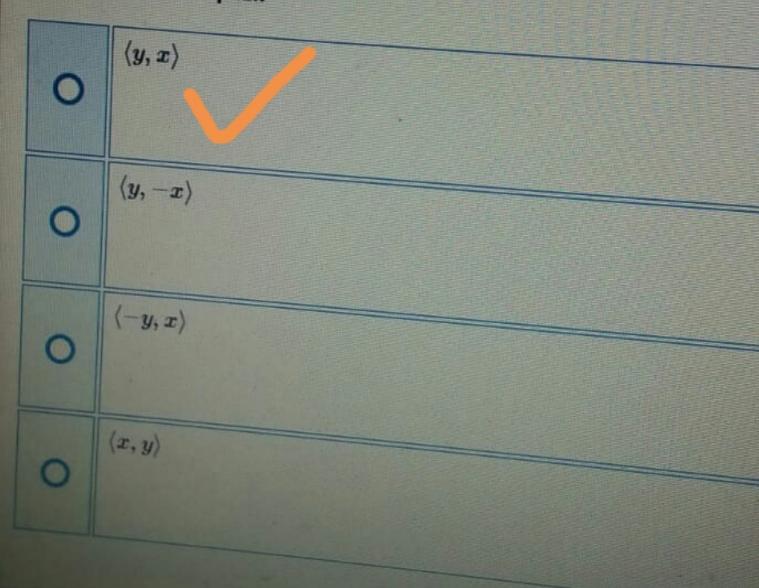
Let  $(V, \langle ., . \rangle)$  be an inner product space over a field F, then .....

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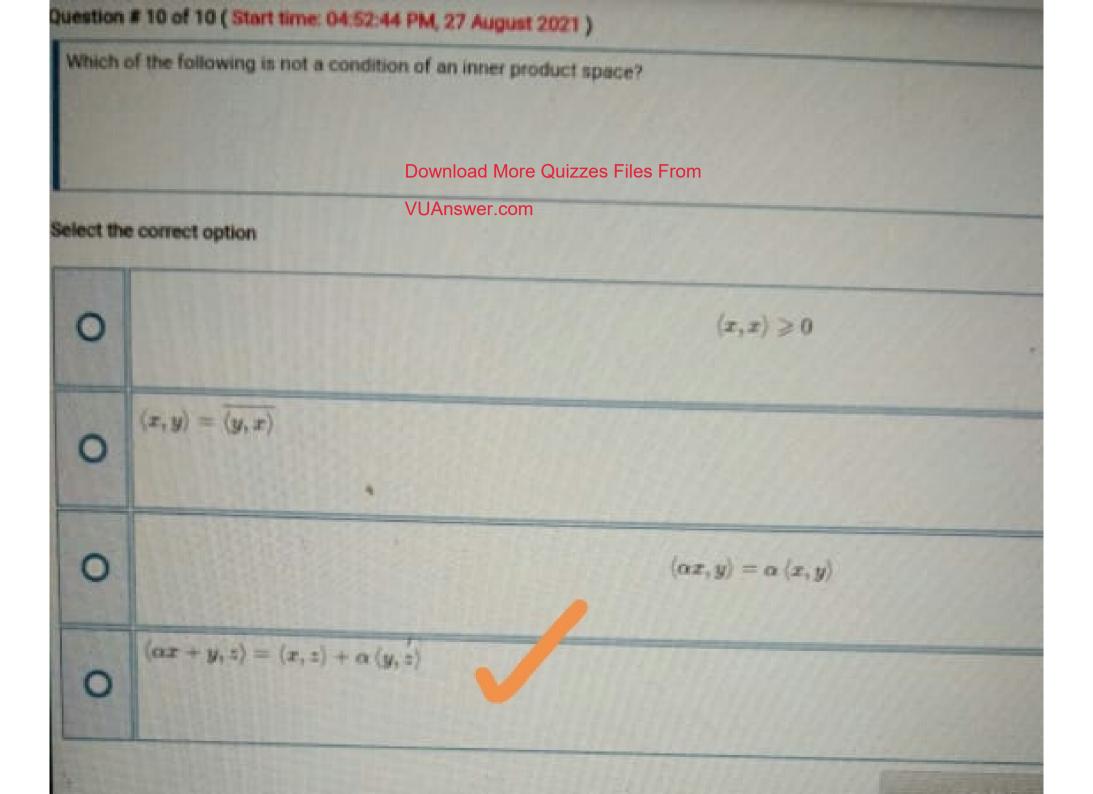


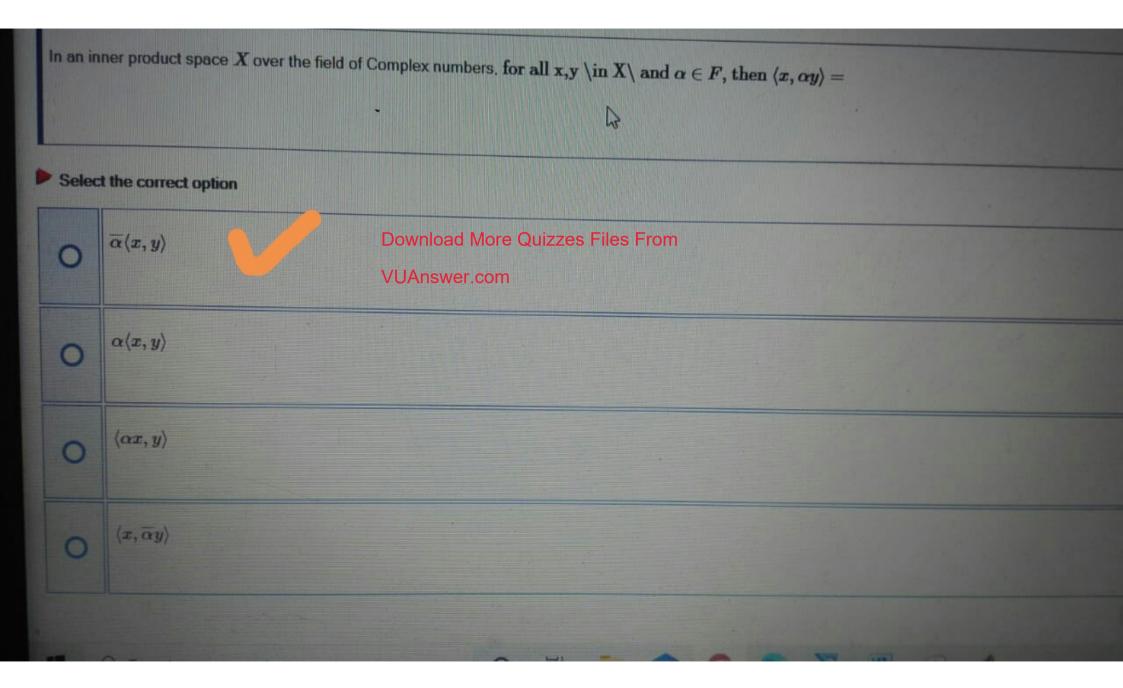
# Question # 7 of 10 ( Start time: 04:21:16 PM, 27 August 2021 )

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



Question	# 10 of 10 ( Start time: 04:23:18 PM, 27 August 2021 )	
Which c	of the following is a condition of an inner product space?	
Select th	e correct option	
0		$\langle lpha x, y  angle = \langle x, lpha y  angle$
0	$\langle lpha x+y,z angle =\langle x,z angle +lpha \langle y,z angle$	
0		$\langle x,x angle \geqslant 0$
0	$\langle x,y angle = \overline{\langle x,y angle}$	
	A Type here to search	





# Question # 5 of 10 (Start time: 05:19:34 PM, 27 August 2021)

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

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Select the correct option

C

$$\Rightarrow \langle x_n, y_n 
angle \longrightarrow \langle x, y 
angle$$

$$\Rightarrow \langle x_n, y_n 
angle \longrightarrow \langle x, y 
angle$$

$$\Longrightarrow \langle x_n, y_n 
angle 
eq \langle x, y 
angle$$

$$\Longrightarrow \langle x_n, y_n 
angle = \langle x, y 
angle$$