	Question 1 Complete
	Marked out of 1.00
	□ <b>№</b> 8218665
	Question text
	Use quantifiers and predicates with more than one variable to express, "There is a student in this class who has taken at least one course in Discrete Maths."
	Select one:
○ ∃ x	A. $\forall y P(x,y)$ , where $P(x,y)$ is " $x$ has taken $y$ ," the domain for $x$ consists of all student in this class, and the domain for $y$ consists of all Discrete Maths lectures.
© ∀ a	B. $x \forall y P(x,y)$ , where $P(x,y)$ is " $x$ has taken $y$ ," the domain for $x$ consists of all student in this class, and the domain for $y$ consists of all Discrete Maths lectures.
•	
$\exists x$	$z\exists y P(x,y)_{, \text{ where }} P(x,y)_{\text{ is } "x}$ has taken $y$ ," the domain for $x$ consists of all student in this class, and the domain for $y$ consists of all Discrete Maths lectures.
0	D. $\exists x \exists y P(x,y)$ , where $P(x,y)$ is "x has taken $y$ ," the domain for $x$ consists of all Discrete
	Maths lectures , and the domain for ${\it y}$ consists of all student in this class.
	Question 2 Complete Marked out of 1.00
	8218665
	Question text
	Let $P(x)$ , $Q(x)$ be the following propositional functions:
	P(x) = "Student $x$ passes this test."
	Q(x) = "Student $x$ studies hard for this test."
	where the domain consists of the students in your class.
	Express the following using $P(x)$ , $Q(x)$ and logical connectives with quantifier:
	, and 13 given control of the quantition

	"Not all students who passed the test did study hard for it."	
0 0	Select one: $ A. \ \forall \ x(P(x) \to Q(x)) $ $ B. \ \exists \ x(\neg P(x) \lor Q(x)) $ $ C. \ \exists \ x(P(x) \land \neg Q(x)) $ $ D. \ \forall \ x(P(x) \land \neg Q(x)) $	
	Question 3 Complete Marked out of 1.00  8218665	
	Question text	
	Let $P(x)$ denote the statement " $x^2>4$ ".	
	Which of these have truth value true?	
•	Select one: A. $P(-3)$	
C	$_{B.}P(1)$	
	C. P(2)	
0	$_{D.}P(0)$	
	Question 4 Complete Marked out of 1.00	
	8218665	
	Question text	
	In the statement $\forall \ x P(x)$ , $\forall$ is the, $x$ is the and $P(x)$ is the	
0	Select one:	
	A. antifier, predicate, variable	
0	B.	
Variable, quantifier, predicate		

C.			
licate, variable, quantifier			
D.			
Quantifier, variable, predicate			
Question 5 Complete Marked out of 1.00			
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Question text			
Determine the truth value of statement $\exists x(-2x=x)$ if the domain consists of all integers.			
Select one:			
A.			
e - The state of t			
B.			
e 			
Question 6 Complete Marked out of 1.00			
8218665			
Question text			
Let $P(x)_{,}Q(x)$ be the following propositional functions:			
P(x) = "Student $x$ passes this test."			
Q(x) = "Student $x$ studies hard for this test."			
where the domain consists of the students in your class.			
Express the following using $P(x)$ , $Q(x)$ and logical connectives with quantifier:			
'Not all students will pass the test."			
Select one:			
$\forall x \neg P(x)$			
$_{B.}\forallxP(x)$			

0	$C. \exists x P(x)$	
•	$\exists x \neg P(x)$	
	Question 7 Complete Marked out of 1.00  8218665	
	Question text	
© C	"The sum of two negative real numbers is negative." Is given by? Select one: A. $\exists x \exists y ((x<0) \land (y<0) \rightarrow (x+y<0))$ B. $\forall x \forall y ((x<0) \land (y<0) \rightarrow (x+y<0))$ C. $\exists x \forall y ((x<0) \land (y<0) \land (x+y<0))$ D. $\forall x \exists y ((x<0) \land (y<0) \land (x+y<0))$	
	Question 8 Complete Marked out of 1.00  8218665	
	Question text	
0	"Everyone wants to learn mathematic." This argument may be true for which domains?  Select one:	
C	A. th of the mentioned	
0		
	B. students in your mathematic class	
•		
	the mathematical learning students in the world	
0	D.	
None of the mentioned		
	Question 9 Complete	

Marked out of 1.00		
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Question text		
Determine the truth value of $\exists n(n^2 < n)$ if the domain consists of all real numbers.		
Select one:		
A.		
e		
В.		
False		
Question 10 Complete Marked out of 1.00  8218665		
Question text		
Let $Q(x,y)$ denote " $x+y=0$ ". What is the truth value of the quantifications $\exists y \ \forall \ xQ(x,y)$ if the domain consists of all integers.		
Select one:		
A.		
True		
В.		
False		