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## Quiz-7 (18-04-2020)

1 message

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Sat, Apr 18, 2020 at 12:52 PM

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## Quiz-7 (18-04-2020)

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Yashaswi

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~( $\forall x.(P(x) \rightarrow \exists y.Q(x,y))$ ) is equivalent to \*

- - ~(∀x.(~P(x) \/ ∀y.Q(x,y)))
- $\checkmark$ 
  - $\exists x.(P(x) \land \forall y.\sim Q(x,y))$
- $\forall x.(P(x) \land \forall y.\sim Q(x,y))$

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$\exists x.(P(x) \land \exists y.\sim Q(x,y)))$			
Which of the following is/are true? *			
If P(c) holds for an arbitrary c, then $\forall x.P(x)$ will hold.			
If $P(c)$ holds for some $c$ , then $\exists x.P(x)$ will hold.			
If $\exists x.P(x)$ holds, then $P(c)$ will hold for some $c$ .			
If $\forall x.P(x)$ holds, then P(c) will hold for any arbitrary c.			
'α  = β' (to mean that $\alpha$ entails $\beta$ ) if and only if in every model in which $\alpha$ is, $\beta$ is *			
true; true			
true; false			
false; true			
false; false			
Given two arbitrary sentences A and B in Propositional Logic, A $\mid$ = B (A entails B) if and only if *			
A -> B is valid			
A Λ B is valid			
A ∧ ~B is satisfiable			
$\triangle$ A $\land$ ~B is unsatisfiable			
~B -> ~A is valid			
Consider a KB with two formulae: (1) P, (2) P \/ Q. Assume that the query is Q, then when the KB is, the query would/could be *			

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true; true	
true; false	
false; true	
false; false	

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