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Quiz-4 (05-04-2020)

1 message

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Quiz-4 (05-04-2020)

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The proposition P / (P -> Q) is *

satisfiable and valid

satisfiable and not valid

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not satisfiable and valid
not satisfiable and not valid
Which of the following is/are example(s) of tautology? *
This course is easy and this course is not easy.
This course is easy or this course is not easy.
Head I win and tail you loose.
Ram is married and Shyam is a bachelor.
Ram is married or Shyam is a bachelor.
A conditional is of the form P -> Q. Its converse is given by Q -> P, inverse by \sim P -> \sim Q, and contrapositive by \sim Q -> \sim P. Which of the following is/are true? *
by \sim P -> \sim Q, and contrapositive by \sim Q -> \sim P. Which of the following is/are
by ~P -> ~Q, and contrapositive by ~Q -> ~P. Which of the following is/are true? *
by ~P -> ~Q, and contrapositive by ~Q -> ~P. Which of the following is/are true? * "Converse V Inverse" is a tautology.
by ~P -> ~Q, and contrapositive by ~Q -> ~P. Which of the following is/are true? * "Converse V Inverse" is a tautology. "Conditional V Converse" is a tautology.
by ~P -> ~Q, and contrapositive by ~Q -> ~P. Which of the following is/are true? * "Converse V Inverse" is a tautology. "Conditional V Converse" is a tautology. Conditional and contrapositive always have the same truth value.
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by ~P -> ~Q, and contrapositive by ~Q -> ~P. Which of the following is/are true? * "Converse V Inverse" is a tautology. "Conditional V Converse" is a tautology. Conditional and contrapositive always have the same truth value. Inverse and converse always have the same truth value. Which of the following is/are examples of proposition? * What a beautiful lake?

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Which of the following is/are correct translations of this sentence into propositional logic: Sita will win the match unless she is injured, in which case Ram will win. (S: Sita will win the match; I: Sita is injured; R: Ram will win the match). *

- (I -> R) -> (~I -> S)
- (~I -> S) -> (I -> R)
 (~I -> S) \(\lambda\) (I -> R)

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