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California State University MONTEREY BAY

CST 329 HW2 Review

Translate "If P then Q" into our logical language.

R8.

$P \rightarrow Q$

Submit ✓

If P then Q.



Translate "If Sal is friends with Eddy then Sal is not friends with Evelyn" using this translation key:

P: "Sal and Evelyn are friends"

Q: "Sal and Eddy are friends"

R9.

$P \rightarrow \sim Q$

Submit ✓

If Sal is friends with Eddy then Sal is not friends with Evelyn.



Translate "If the bank door is closed then the bank is not being robbed" using this translation key:

P: "the bank is being robbed"

Q: "the bank door is open"

R10.

$\sim Q \rightarrow \sim P$

Submit ✓

If the bank door is closed then the bank is not being robbed.

✓

Translate "P so long as Q" into our logical language.

R11.

$Q \rightarrow P$

Submit ✓

P so long as Q.

✓

If "P" stands for the atomic sentence "Sal and Evelyn are friends", then write a sentence in our logical language for:

"Sal and Evelyn are not friends"

R12.

$\sim P$

Submit ✓

Sal and Evelyn are not friends

✓

Suppose P, Q, and R are atomic sentences. Write a logical sentence that captures

"if P, then Q implies R"

R13.

$P \rightarrow (Q \rightarrow R)$

Submit ✓

if P, then Q implies R

✓