Problem set #4

Jeff Speaks
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This is due on Monday.

1. We have introduced the sentence operators P and F. Now consider the sentence operator ‘It is true at every time that.’ How could this be defined in terms of P and F?

   (Hint: what I want it some sentence of the form,
   \[ [\text{It is true at every time that } S] = 1 \text{ iff } \ldots \]
   where the ‘\ldots’ is filled in using P and F.)

2. Think about how one might try to define the sentence connective ‘since’ in terms of P and F. Why is this hard to do?