Problem set #4

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October 2, 2014

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,

   $[\![$It is true at every time that S$]\!] = 1$ iff ...

   where the '...' 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?