COMP111 - Tutorial 4 Answers

Ben Weston

November 5, 2020

- 4. $DerivedAssertions = fA_1(a); A_2(a); A_1(b); A(a); C(a)g$
- 6. The first statement, fA(a); B(b); $A(x) ! B(x)g \models B(a)$, is correct. This is because the assertion, A(a), follows the rule, $A(x) ! B(x)g \models B(a)$, to become B(a). This then validates the statement as B(a) is in the set *DerivedAssertions*.

Statement two is incorrect as the list of <code>DerivedAssertions</code> is:

fA(a); B(b); B(a)g

As A(b) isn't in that set then the statement is incorrect.