Assignment 3

Due: Monday 3 December 5pm Philosophy Office

1. Ex 1a (Priest p. 60)

2. Ex 4a (Priest p. 61)

3. Ex 5a (Priest p. 61)

4. Establish whether (*) is true. If (*) is false, find a countermodel and verify that it is a countermodel.

(*) $\vdash_{K\rho\tau} \Diamond\Box p \supset \Box\Diamond p$

5i) Find a sentence that is a theorem in Kρ, but not in Kσ or Kτ.

5ii) Find a sentence that is a theorem in Kσ, but not in Kρ or Kτ.

5iii) Find a sentence that is a theorem in Kτ, but not in Kρ or Kσ.

Note: A is a theorem in logic X iff $\models_X A$