EXERCISES ON MODAL LOGIC (5)

RAMON JANSANA

1.

Prove that the logic KT4 + $\Box(\Box p \to \Box q) \vee \Box(\Box q \to \Box p)$ (known as S4.3) is canonical, and therefore frame complete.

2.

Prove that the logic KT + $p \to \Box p$ (called Trivial) is canonical, and hence frame complete.

3.

Prove that the logic K + $\Box(\Box p \to p)$ is canonical.

4.

Prove that the logic K + $\Diamond\top \to (\Box p \to p)$ is canonical.