Homework for Philosophy 270, Fall 2009

Homework on §1.2—assigned Mon 8/31 and due Wed 9/2

(i) Give your own example of four non-equivalent sentences that make up a "square of opposition"—i.e., two mutually exclusive sentences each of implies one of a pair of jointly exhaustive sentences and is contradictory to the other:

sentence 3 \forall sentence 4 sentence 1 \vDash sentence 3 sentence 2 \vDash sentence 4 sentence 1 \bowtie sentence 4 sentence 2 \bowtie sentence 3 sentence 1 \triangle sentence 2

(The bottom three relations are enough to get you all the rest.)

(ii) Pick one pair of sentences from the square and briefly describe a possible world in which they have different truth values.