

MEANS-ENDS EPISTEMOLOGY
ASSIGNMENT #2

Deadline: **Thursday June 23**, before class.

- (1) Kelly writes that topological characterization results “may be thought of as *transcendental deductions* for reliable inductive inference, since they show what sort of knowledge is necessary if reliable inductive inference is to be possible” (p. 74 in the book). Discuss whether or not this fits the description of transcendental arguments given in the opening paragraph of the relevant lemma of the *Stanford Encyclopedia of Philosophy* [<https://plato.stanford.edu/entries/transcendental-arguments>].
- (2) Kelly writes on p. 81 in the book that *The problem of induction arises when either the hypothesis or its complement is not closed*. What exactly does Kelly mean by the problem of induction here? Explain why there is not such a problem of induction if the hypothesis and its complement *are* closed. Mention in your explanation the notion of limit point.
- (3) Prove the refutability case of Proposition 4.6 in the book (at the same level of detail as the given verifiability case).
- (4) Solve Exercise 4.10 in the book.