Identity Theory Jigsaw Lesson
Work Group: Only

I. Translation key

   b: Berkeley; d: Descartes; h: Hume; k: Kant; l: Locke; n: Nietzsche; s: Spinoza;
   Ex: x is an empiricist; Px: x is a philosopher; Rx: x is a rationalist
   Lxy: x likes y; Mxy: x is read more widely than y; Pxy: x plays billiards with y; Rxy: x respects y

II. Examine the translations below, which use the key in I.

   1. Nietzsche respects Spinoza

        Rns

   2. Nietzsche respects only Spinoza

        Rns • (∀x)(Rnx ⊃ x=s)

   3. Only Nietzsche doesn't like Nietzsche.

        ~Lnn • (∀x)(~Lxn ⊃ x=n)

   4. Only Locke plays billiards with some rationalist who is read more widely than Descartes.

        (∃x)(Rx • Mxd • Plx) • (∀x)[(Rx • Mxd) ⊃ (∀y)(Pyx ⊃ y=l)]

   5. Only Kant is read more widely than Descartes and Hume.

        Mkd • Mkh • (∀x)[(Mxd ∨ Mxh) ⊃ x=k]

III. Try these, using the key in I.

   6. Nietzsche is the only philosopher read more widely than Descartes.

   7. Kant is the only empiricist who is also a rationalist.

   8. Only Locke and Berkeley are empiricist philosophers respected by some rationalist
        philosopher.