

Identity Theory Jigsaw Lesson  
Workgroup: At Most

I. Examine the following translations:

1. At most one person is Michael's assistant.  $(x)(y)[(Axm \cdot Aym) \supset x=y]$

2. At most two people are Michael's assistants.

$$(x)(y)(z)[(Axm \cdot Aym \cdot Azm) \supset (x=y \vee x=z \vee y=z)]$$

3. At most two persons invented the airplane.

$$(x)(y)(z)[(Px \cdot Ix \cdot Py \cdot Iy \cdot Pz \cdot Iz) \supset (x=y \vee x=z \vee y=z)]$$

4. Some people like Angela, but at most two.

$$(\exists x)Lxa \cdot (x)(y)(z)[(Lxa \cdot Lya \cdot Lza) \supset (x=y \vee x=z \vee y=z)]$$

Notice that 'at most' statements make no existential commitments.

II. Try these:

5. There is at most one applicant for the job.  $(Ax)$

6. There are at most two applicants for the job.

7. There are at most three applicants for the job.

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