

Philosophy 60
Test 8 solution

Instructions: Translate the following sentences into predicate logic. Use the first letters of relevant words for predicates, relations and names.

1. Mike is nasty.

Nm

2. Mike is nastier than Chester.

Nmc

3. Mike loves Chester.

Lmc

4. Mike loves cheese.

$\forall x(Cx \rightarrow Lmx)$

5. Mike only loves cheese.

$\forall x(Lmx \rightarrow Cx)$

6. Every girl loves Mike.

$\forall x(Gx \rightarrow Lxm)$

7. Mike is nasty to some girl. (Translate “nasty to” as N)

$\exists x(Gx \& Nmx)$

8. Every girl will have Mike. (Translate “will have” as H)

$\forall x(Gx \rightarrow Hxm)$

9. No girl will have Chester.

$\forall x(Gx \rightarrow \sim Hxc)$

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10. Chester will have himself.

Hcc

11. If Maria is not an elf, she is a finger puppet.

$\sim E_m \rightarrow F_m$

12. Some elves are bearded.

$\exists x(E_x \& B_x)$

13. Some bearded things are not elves.

$\exists x(B_x \& \sim E_x)$

14. God is not evil.

$\sim E_g$

15. There are no evil geese.

$\sim \exists x(G_x \& E_x)$