

innlevering 7 runehold

13.1

- a) $\text{Far}(\text{Ola}, \text{Kari})$
- b) $\exists x \text{ Mor}(\text{Kari}, x)$
- c) $\neg \exists x \text{ Mor}(x, \text{Ola})$
- d) $\forall x (\exists y \text{ Mor}(y, x) \wedge \exists y \text{ Far}(y, x))$
- e) $\forall x \exists y (\text{Mor}(y, x) \wedge \exists z \text{ Mor}(z, y))$
- f) $\neg \exists x (\exists y \text{ Mor}(x, y) \wedge \exists y \text{ Far}(x, y))$

14.6

- a) $Ba \wedge Fa$
- b) $\forall x (Bx \rightarrow Fx)$
- c) $\forall x (Fx \rightarrow \neg Bx)$
- d) $\exists x (Kax \wedge Fx)$
- e) $\forall x (Fx \rightarrow Kbx)$
- f) $\forall x (Kax \rightarrow Bx)$
- g) $\forall x \exists y (Kxy \wedge Fy)$
- h) $\forall x \exists y (Kxy \wedge \exists z (Kyz \wedge Fz))$

- i) Det finnes ingen biologer eller filosofer
- j) Aristoteles kjenner noen som ikke er biolog
- k) Alle filosofer kjenner hverandre
- l) Noen kjenner alle filosofer