Innlevering 9

15.10

A) $\forall x \forall y Rxy$
   - Rxy: $(x > y) \vee (x <= y)$

B) $\exists x \forall y Rxy$
   - Rxy: $x <= y$

C) $\forall x \exists y Rxy \wedge \neg \exists x Rxx$
   - Rxy: $(x > y) \vee (x < y)$

D) $\exists x \exists y (Rxy \wedge \neg Ryx) \wedge \forall x Rxx$
   - Rxy: $(x > y) \vee (\neg(x > y) \vee \neg(x < y))$

16.4

A) $\exists x(\text{Liten}(x) \wedge \text{Trekant}(x))$
   - Usann

B) $\exists x(\text{Liten}(x) \wedge \text{Firkant}(x))$
   - Sann

C) $\forall x(\text{Liten}(x) \rightarrow \text{Firkant}(x))$
   - Usann

D) $\forall x(\text{Sirkel}(x) \rightarrow \text{Liten}(x))$
   - Sann

E) $\forall x(\text{Trukant}(x) \rightarrow \text{Stor}(x))$
   - Sann

F) $\forall x \neg \exists y(\text{Under}(x, y))$
   - Sann

16.7

- $\exists x \exists y Rxy$ er en logisk konsekvens av $\forall x \forall y Rxy$