

Self Exercise 4

1. Translate statement into notation of predicate.

a). No one talks

$$\neg \exists x \text{ talk}(x) \quad \checkmark$$

b). Every student walks or talks

$$\forall x (\text{student}(x) \rightarrow (\text{walks}(x) \vee \text{talks}(x))) \quad \checkmark$$

c). John does not love anyone

$$\neg \exists x \text{ love}(\text{John}, x) \quad \checkmark$$

d). Someone walks or talks

$$\exists x (\text{walk}(x) \wedge \text{talk}(x)) \quad \checkmark$$

e). Everyone walks or talks

$$\forall x (\text{walks}(x) \wedge \text{talks}(x)) \quad \checkmark$$

f). Every student who walks talks

$$\forall x (\text{student}(x) \wedge \text{walk}(x) \rightarrow \text{talk}(x)) \quad \checkmark$$

Don't
put the
equal
sign.

Checked
24/3/22