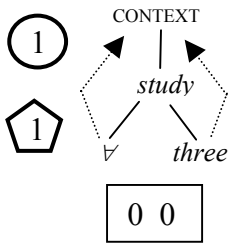


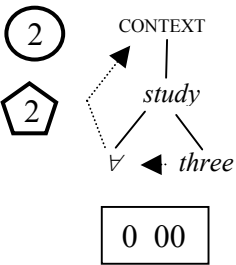
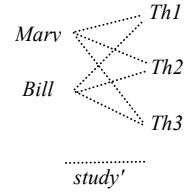
## THE TWO INTERPRETATIONS OF THE SENTENCE

### All students studied three theorems



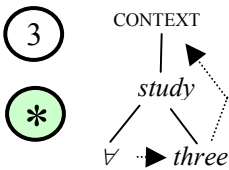
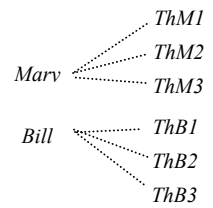
All (relevant) students (Mary and Bill) studied the same three theorems (Th1, Th2 and Th3).

$$\begin{aligned} & \exists y_1 \exists y_2 \exists y_3 \\ & [y_1 \neq y_2 \neq y_3 \wedge \\ & \forall y [(y=y_1 \vee y=y_2 \vee y=y_3) \rightarrow \text{theorem}'(y)] \wedge \\ & \forall x \forall y [(\text{student}'(x) \wedge (y=y_1 \vee y=y_2 \vee y=y_3)) \rightarrow \text{study}'(x,y)]] \end{aligned}$$



Each (relevant) student chooses three theorems and studies them

$$\begin{aligned} & \forall x [\text{student}'(x) \rightarrow \\ & \exists y_1 \exists y_2 \exists y_3 [y_1 \neq y_2 \neq y_3 \wedge \\ & \forall y [(y=y_1 \vee y=y_2 \vee y=y_3) \rightarrow \text{theorem}'(y)] \wedge \\ & \forall y [(y=y_1 \vee y=y_2 \vee y=y_3) \rightarrow \text{study}'(x, y)]]] \end{aligned}$$



Conflates in 1.

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