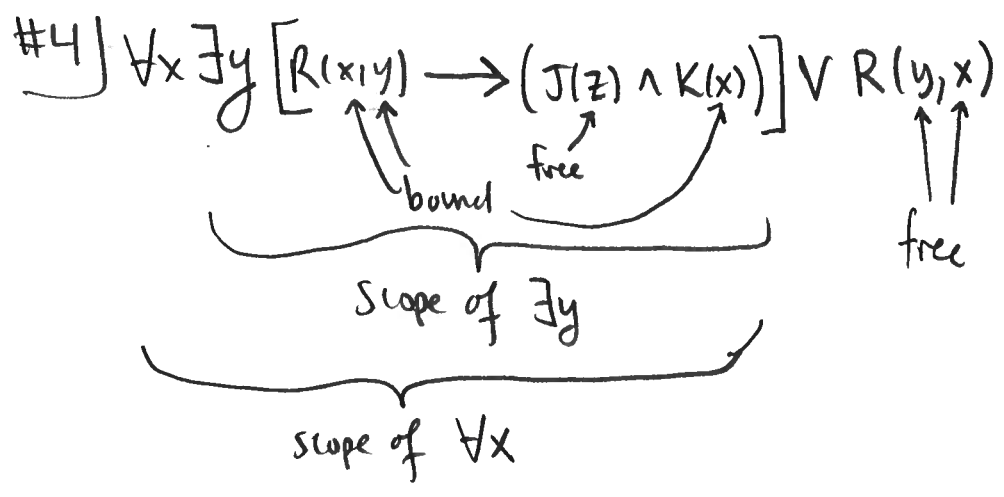
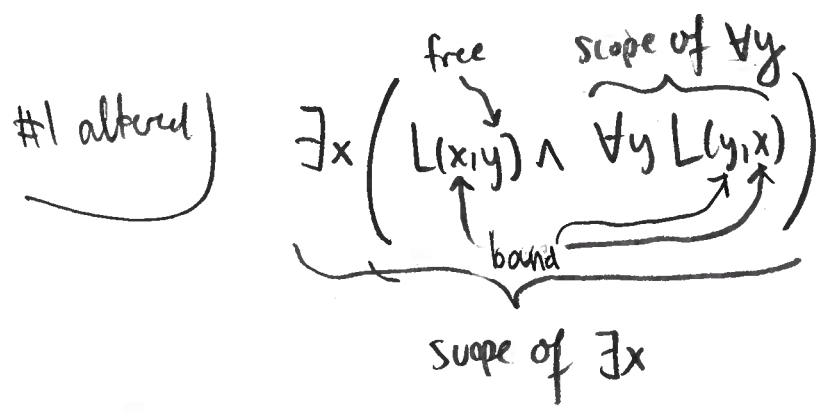
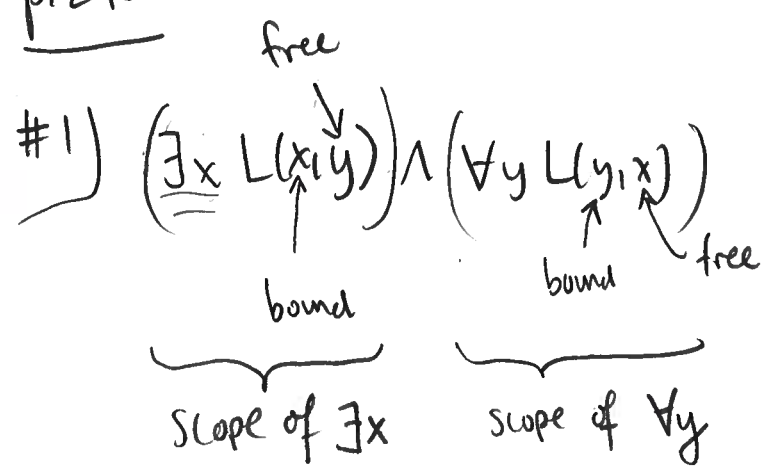
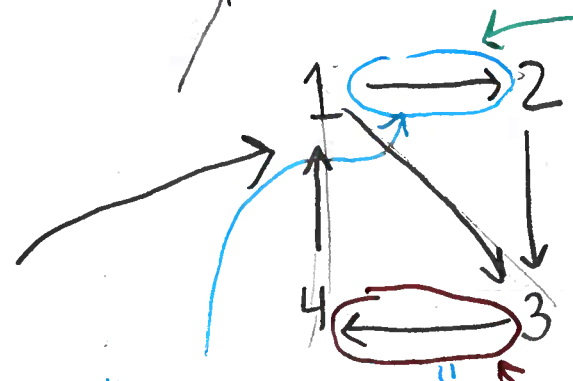


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Specify a predicate  $R(x,y)$  with diagram



We do not have an arrow from 2 to 1 ~ so  $R(2,1)$  is false

" $R(1,2)$  is true"

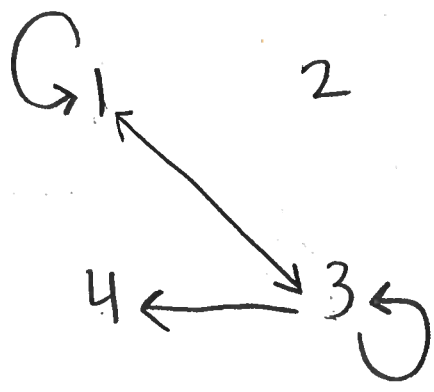
" $R(3,4)$  is true"

domain is  $\{1, 2, 3, 4\}$

- TRUE
- $R(1,2)$
- $R(2,3)$
- $R(3,4)$
- $R(4,1)$
- $R(1,3)$

technically numbers aren't names, but we will allow it

all of this specifies an "interpretation"



$R(1,1), R(3,4), R(1,3), R(3,1)$

are true