

First Order Logic

19/11/2/1

Statements:

I Everyone who is a parent of Shyam is also a teacher I here exists someone who is a child of Ram and is a student 3. Everyone who is a teacher is a parent of

5. Shyan has a sibling who is a student.

6. All siblings of Shyam has a parent

7. Ram is a teacher & a parent of Shyam some person

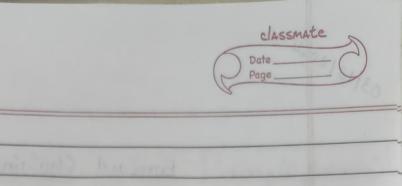
1. Ix (Parent (x, Shyam) - Teacher (x)) & Fy (Parent (Ram, y) A Student(y))

3 Ax (Teacher(x) -> fy Parent (2, y)) 4 Parent (a, Geeta)

5. Fx (58bling (x, Shyam) 1 Student (x))

6. Ax (sibling (x, shyam) -> y Parent (y, x))

7. Teacher (Ram) A Parent (Ram, Shyam)



Unification:

1. Hx (Parent (x, y) -> Teacher (x)) 2. Parent (Ram, Shyam) -> Teacher (Ram)

to unity Parent (x,y) and Parent (Ram, Shyam)

Substitution > 2 = Ram, y= Shyam.

Substituting:

ta (Parent (Rom, Shyam) -> Teacher (Ram))

-: The statement is true and 22 Ram, you Shyam

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A (5. y. x), Me (x) acriema A (y)