Course in Semantics · Ling 531 / 731 McKenzie · University of Kansas

Key

$$Let \ a = \begin{bmatrix} 1 & \rightarrow & Tom \\ 2 & \rightarrow & Becky \\ 3 & \rightarrow & Sam \\ 4 & \rightarrow & Mark \end{bmatrix} \qquad Let \ b = \begin{bmatrix} 1 & \rightarrow & Yelena \\ 2 & \rightarrow & Dmitri \\ 3 & \rightarrow & Jamila \\ 4 & \rightarrow & Turgun \end{bmatrix}$$

- 1. Assume assignments a, b. For each of the following, apply the proper assignment function.
 - 1. a(1) = Tom READ: a of 1 equals Tom
 - 2. a(3) = Sam READ: a of 3 equals Sam
 - 3. b(2) = Dmitri
 - 4. b(4) = Turgun
 - 5. a(5) = undefined

Number 5. is a trick question, because you expect the answer to be in the range of one of the functions, but this answer isn't. The number 5 is not in the domain of assignment a, which is $\{1, 2, 3, 4\}$. Thus, it cannot be plugged into a, and does not get mapped to a value in the range of assignment a. Thus, a(5) is undefined. Consequently, any expression containing a(5) with this assignment will be uninterpretable.

- **2.** Assume assignments a, b. Replace the underlined expression in each proposition with its value in the assignment function.

 - 3. I gave b(3) a hat I have Jamila a hat
 - 4. a(2) is b(2)'s friend Becky is Jamila's friend
 - 5. We can't see a(1) with b(9) \leq cundefined> since $9 \notin dom(b)$
 - 6. b(4) likes b(2) but not b(1) Turgun likes Dmitri but not Yelena
- 3. Create an assignment function using five characters from a story (film, book, play, joke). Write a paragraph of fan fiction using only f(n) to indicate the protagonists.