

# Problem Set 7

Due November 3 before class. Submit on IVLE > Files > Student Submission > PS7.

## 1. Comparatives and quantifiers:

a. Compute the truth conditions for example (1).

(1) Rachel is taller than every boy is.

2  
Draw the tree at LF, and give types, denotations, and rules for each node.

Following the discussion in class, [-er/more [than every boy is ~~t-tall~~]] will have to QR, as in tree (29) in Handout 9.

b. What do the truth conditions that you computed in part (a) predict for Models A, B, and C? Is (1) true in Models A, B, and C?

1  
A: Rachel: 163cm boys John: 150cm Bill: 155cm Alex: 160cm

B: Rachel: 157cm boys John: 150cm Bill: 155cm Alex: 160cm *could be*

C: Rachel: 146cm boys John: 150cm Bill: 155cm Alex: 160cm

What change do you have to make to your computation in part (a) to make (1) get the right truth conditions?

## 2. Comparatives and negation:

a. Example (2) is judged as ungrammatical. Explain why.

1  
(2) \* Rachel is taller than Stephanie {isn't / is not}.

Hint: Think about what truth conditions you would predict for this sentence.

b. Give the LF tree structure and resulting denotation for (3). (You do not need to show intermediate steps in your computation.)

2  
(3) Rachel is not taller than Stephanie is.

Hint: You will need the VP-internal subject hypothesis. (You can pretend the word order is *Rachel not is taller than Stephanie is*, if that helps.)