

# Math 2283 - Introduction to Logic

Quiz #3 - 2017.01.18

Name: \_\_\_\_\_

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1. If we consider only people in the classroom, determine which of the following quantified statements are true, and which are false.

(a)  $\forall x \exists y (x \text{ is taller than } y)$

(b)  $\exists x \forall y (x \text{ is taller than } y)$

(c)  $\exists x, y (x \text{ is taller than } y)$

(d)  $\exists y \forall x (x \text{ is taller than } y)$

2. Write a (logical) sentence which contains at least two different logical connectives. You may be as creative as you wish.