For each statement below, work in your groups to decide whether or not the statement is true. Assume $S$ is the set of students in class right now.

1. $\forall x \in S, \exists y \in S, x$ and $y$ are in the same row

2. $\forall x \in S, \exists y \in S, (x$ and $y$ are in the same row) $\land (x \neq y)$

3. $\forall x \in S, \exists d \in$ (the set of deans at Bryn Mawr and Haverford), $d$ is $x$’s dean

4. $\forall x \in S, \exists p \in$ (the set of pages in our textbook), $p$ is the last page that $x$ has read

5. $\exists x \in S, \forall y \in S, x$ and $y$ are in the same row

6. $\exists x \in S, \forall y \in S, x$’s age $\geq y$’s age

7. $\exists x \in S, \exists y \in S, x$ is sitting next to $y$

8. $\exists d \in$ (the days in the 21st century), $\forall y \in S, d$ is the day $y$ is scheduled to graduate

9. $\exists r \in$ (the classrooms at Bryn Mawr and Haverford), $\forall y \in S, y$ is in room $r$

10. $\forall x \in S, \exists c \in$ (the computer science courses offered at Bryn Mawr and Haverford), $x$ has been enrolled in $c$