

- . Helpful to symbolically write (SW) are:

$\forall$ , which is read *for All* and  $\exists$ , which is read *there Exists*.

**Ex 1.** Are the following statements? Circle YES or NO.

1.1. She has gray hair. YES NO

1.2. The Univ. of South Carolina Math 300.001 professor this semester has gray hair. YES NO

1.3.  $2x + 4 = 10$ . YES NO

1.4. When  $x = 2$  we have that  $2x + 4 = 10$ . YES NO

1.5. For all  $x \in \mathbb{R}$  we have that  $2x + 4 = 10$ . YES NO

1.6. There exists  $x \in \mathbb{R}$  such that  $2x + 4 = 10$ . YES NO