

## PEX4 Write-out Problems

Tuesday, November 18, 2014  
8:30 AM

2. Two people who speak the same language will understand each other.

3. a)  $\text{isSurgeon}(\text{emily}) \cup \text{isLawyer}(\text{emily})$   
b)  $\text{isActor}(\text{joe}) \cap \exists J (\text{hasJob}(\text{joe}, J) \cap J \neq \text{actor})$   
c)  $\forall \text{People } (\text{isSurgeon}(\text{People}) \supset \text{isDoctor}(\text{People}))$   
d)  $\neg \exists L (\text{lawyers}(L, \text{joe}))$   
e)  $\exists L (\text{lawyers}(L, C) \cap \text{isDoctor}(C))$

4.



