6.1120 Fall 2025	Miniquiz #7	5 Minutes
	Email	
	Name	

- 1. Consider the parent relation Parent(A, B) \subseteq People \times People that denotes that A is a parent of B. For example, Parent(Bob, Elise) denotes that Bob is a parent of Elise.
 - a) Define the meaning of a new relation Child(A, B) ⊆ People × People that denotes that A is a child of B by completing the following inference with a premise (or premises) above the line that only use the Parent relation.

 $\overline{Child(A,B)}$

b) Define the meaning of a new relation Grandparent(A, B) that denotes that A is a grandparent of B by completing the following inference rule with a premise (or premises) that only use the Parent relation.

 $\overline{Grandparent(A,B)}$

c) Define the meaning of a new relation Ancestor(A, B) \subseteq People \times People that denotes that A is an ancestor of B by providing an inference rule (or inference rules).