Oblig 4

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2.1

1: yes

2: yes, the derivation is
fam:hasSister rdfs:subPropertyOf fam:hasSibling - P
fam:hasSibling rdfs:subPropertyOf fam:isRelativeOf - P
fam:hasSister rdfs:subPropertyOf fam:isRelativeOf - rdfsX, 5

3: no
4: yes, the derivation is:
sim:lisa fam:hasParent [fam:hasBrother sim:Herb] - P
fam:hasBrother rdfs:range fam:Man rdfsX, 3
5: yes, the derivation is:
sim:Lisa fam:hasFather sim:Homer - P
fam:hasFather rdfs:subPropertyOf fam:hasParent - P fam:hasParent
rdfs:subPropertyOf fam:isRelativeOf - P sim:Lisa fam:isRelativeOf sim:Homer
rdfsX, 5, 5
6: no
7: yes, the derivation is:
sim:Lisa fam:hasParent [fam:hasSister sim:Patty] - P
fam:hasSister rdfs:range foaf:Person - P
sim:Patty a foaf:Person rdfsX, 3