OWL + SWRL rules

An OWL ontology contains the following class hierarchy, properties and individuals:

Classes:

Road
- LongRoad
- WindingRoad

Properties:

hasLength
hasTurns

Individuals:

r1, r2, r3 (of the class Road)

1. Define the roads r1, r2, r3 with the following values:
   r1: length =18 and number of turns = 35
   r2: length = 30 and number of turns = 75
   r3: length = 22 and number of turns = 18

2. Define a long road as a road with length > 20

   Road(?x), hasLength(?x, ?l), greaterThan(?l, 20) -> LongRoad(?x)

3. Define a winding road as a road with turnrate (number of turns/length) > 1.9

   Road(?x), hasLength(?x, ?l), hasTurns(?x, ?t), divide(?r, ?t, ?l),
   greaterThan(?r, "1.9"^^xsd:double) -> WindingRoad(?x)