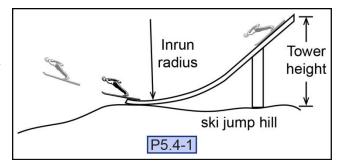
P5.4-1) A ski jump has the technical parameters listed below. The ski jump speed is rated at 94.3 km/h at takeoff. What normal force would an average 68-kg skier experience at take-off under these conditions?

Tower height: 60 m
Inrun angle: 35°
Take-off angle: 11°
Inrun radius: 104 m



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Find:

Solution:

Draw a free-body diagram of the skier.



Determine the normal force applied to the skier.

Write down the skier's equation of motion.

J =			
v <u>—</u>			