



A my kg skier begins descending a smooth ramp at V, m/s. If the skier reaches the bottom of the ramp at yz m/s, how high is the ramp (h)?

What is the normal reaction on the skier exerted by the curve at the bottom of the ramp if p = 3h?

(Assume  $q = 9.81 \text{ m/s}^2$ )

given

Vi D=

Find

N

V2

Jatuar

$$T_1 + V_1 + 2 V_{1+2} = T_2 + V_2$$

$$\frac{1}{2} \text{ MV}_{1}^{2} + \text{ Mgh} = \frac{1}{2} \text{ MV}_{2}^{2} + \text{ mg(0)}$$

## ZFy= Ma = N-ma