## Speed as a Function of Height of Release

Use Conservation of Energy to find an expression relating the speed $v_{b}$ of the ball at the bottom of the ramp (assumed frictionless), just as it is about to enter the loop, and the height $h$ from which it is released from rest:
a.) $v_{b}=\sqrt{g h}$
b.) $v_{b}=\sqrt{2 g h}$

c.) $v_{b}=m g h$
d.) $v_{b}=g h$
e.) $v_{b}=2 g h$

