## Speed as a Function of Height of Release

## Solution:

The correct answer is $\mathbf{b}$.)
If the ramp is assumed frictionless, energy conservation yields ( $\mathrm{m}=$ mass of ball):
$m g h=\left(\frac{1}{2}\right) m v_{b}^{2} \Rightarrow v_{b}=\sqrt{2 g h}$
Note, again, that a reference level (dashed line) needs to
 be specified to measure P.E.

