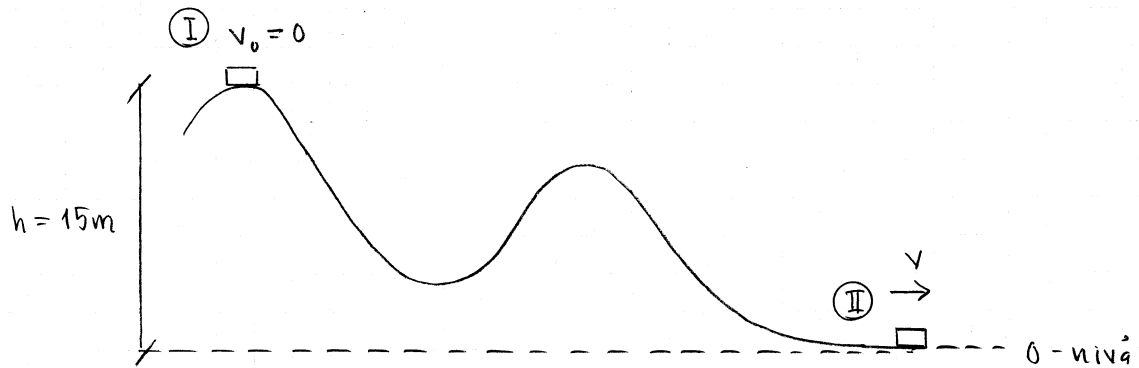


A2005-9



Läge I:  $W_p^I = mgh$   
 $W_k^I = 0$

Läge II:  $W_p^{II} = 0$   
 $W_k^{II} = \frac{mv^2}{2}$

Energiprincipen ger

$$mgh + 0 = \frac{mv^2}{2} + 0$$

$$v^2 = 2gh$$

$$v = \pm \sqrt{2gh} = \sqrt{2 \cdot 9,82 \cdot 15} \text{ m/s} = 17 \text{ m/s}$$

Svar: 17 m/s