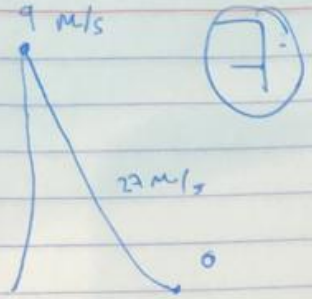


7.

| | A | B |
|---|---|---|
| EX | | |
| KK | $m(9^2)/2$ | $m(27^2)/2$ |
| VG | $-9.81\ mh$ | $-9.81\ m_2$ |
| VF | 0 | 0 |
| EM | | |

$V_i = 9\ m/s$

$V_2 = 27\ m/s$

$h = ?$

$$\frac{m(9)^2}{2} + (-9.81)h$$

$$\frac{(9)^2}{2} + (-9.81)h = \frac{(27)^2}{2}$$

$$40.5 + 9.81hA = 364.5 = 0$$

$$9.8 + hA = 324$$

$$hA = 33.03\ m$$