

Ερ. 13 σε 2.101.

$t(s)$	$v(m/s)$	$s(m)$
0	0	0
1	10	5
2	20	20
4	40	80

1^η χρονική στιγμή: $v = gt = 10 \cdot 1 = 10 \text{ m/s}$.

$$s = \frac{1}{2}gt^2 = \frac{1}{2} \cdot 10 \cdot 1^2 = 5 \text{ m}$$

2^η χρονική στιγμή: $s = \frac{1}{2}gt^2 \Rightarrow 20 = \frac{1}{2} \cdot 10 \cdot t^2 \Rightarrow$

$$5t^2 = 20 \Rightarrow t^2 = 4 \Rightarrow t = 2 \text{ sec.}$$

1^η χρονική στιγμή

$$v = gt \Rightarrow v = 20 \text{ m/s.}$$

2^η "

$$v = gt \Rightarrow 40 = 10t \Rightarrow t = 4 \text{ sec}$$

3^η "

$$s = \frac{1}{2}gt^2 = \frac{1}{2} \cdot 10 \cdot 4^2 = 80 \text{ m}$$