

1) $v_0 = 40 \text{ m/s}$

$$x = x_0 + v_0 t + \frac{1}{2} a t^2$$

$$x = 0 + 40t + \frac{1}{2} (-9.8) t^2$$

$$x = 40t - 4.9t^2$$

$t(\text{s})$	$x(\text{m})$
0	0
2	60.4
4	81.6
6	63.6
8	6.4

