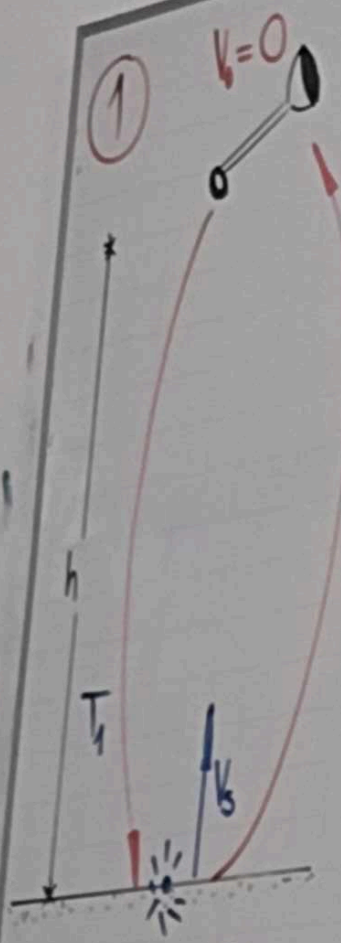
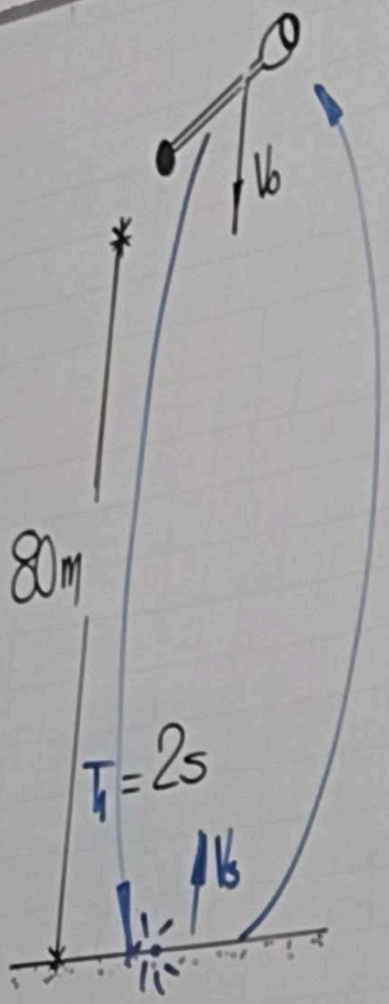




$T_2=0,25$

$h=\cancel{V_0}T+\frac{1}{2}gT^2$

$h=5T_1^2$

$T_1+T_2=4,25s$

$T_1+T_2=4+0,25$

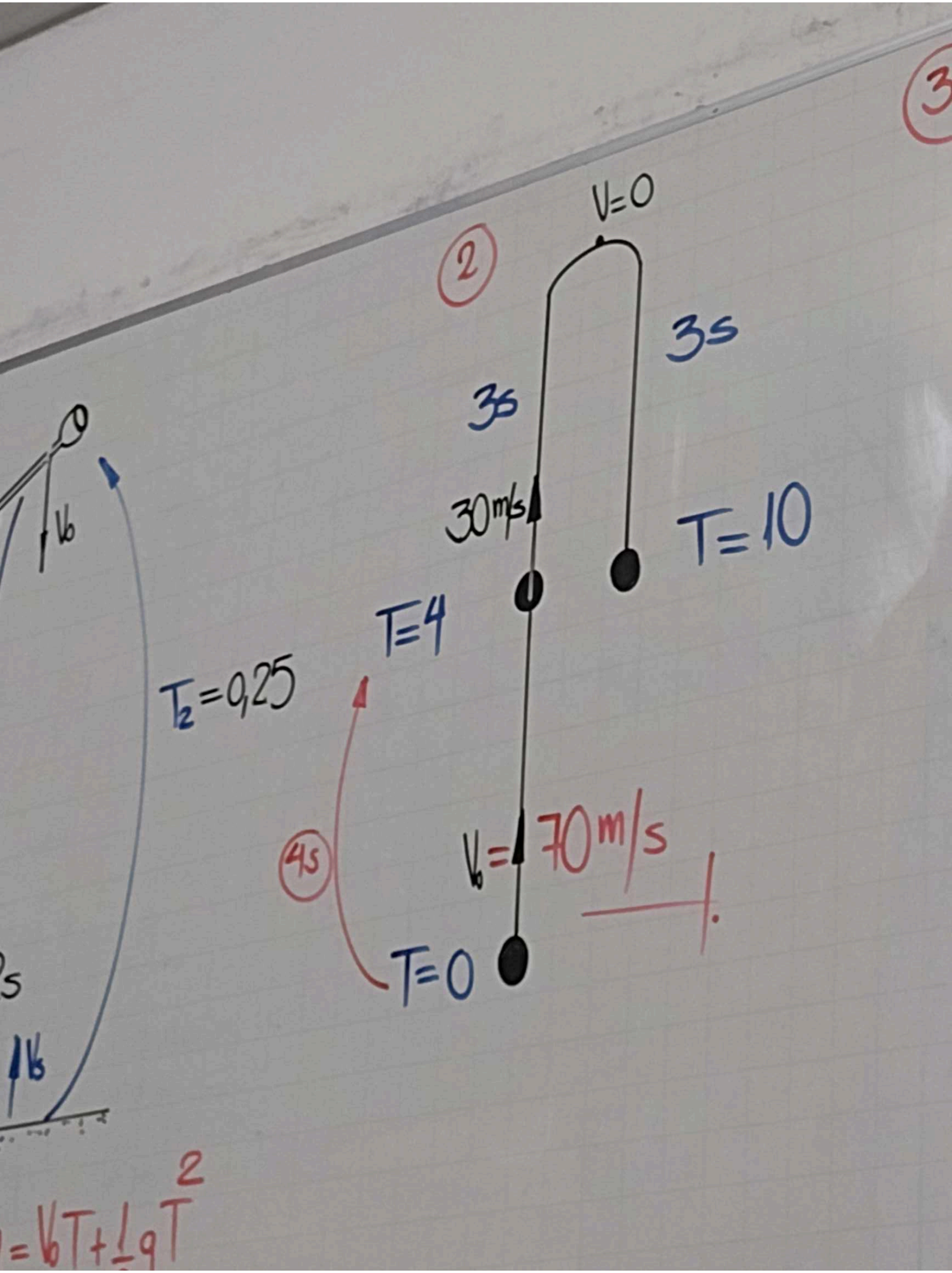
$d=V_s.T_2$

$h=320.T_2$

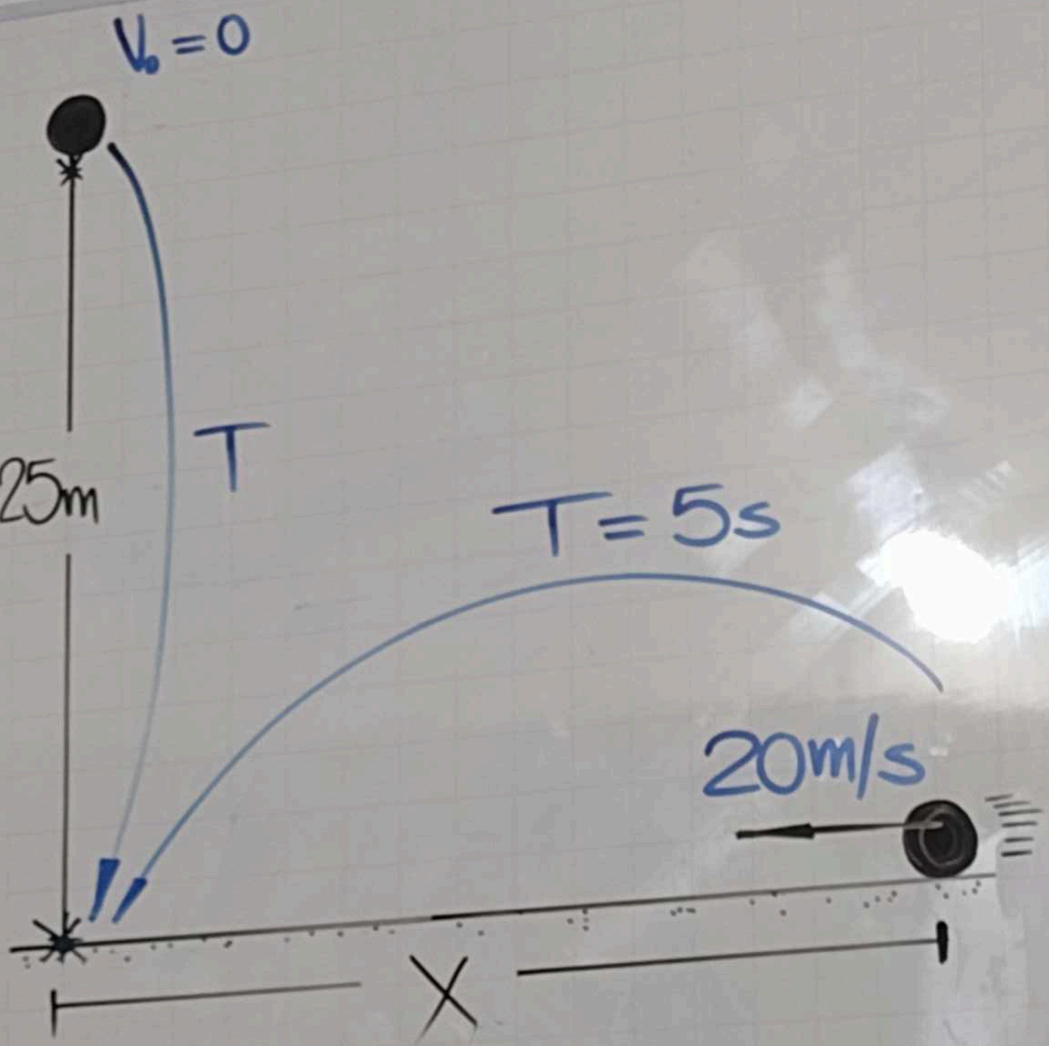
$h=V_bT+\frac{1}{2}gT^2$

$80=V_0.2+5(2)^2$

$V_0=30\,m/s$!


3
V=0
2
3s
3s
30m/s
T=10
T=4
T2=0,25
4s
V=70m/s
T=0
Vb
Vb
=VbT+½gT²

(7)



$h = V_0 T + \frac{1}{2} g T^2$ ✓

$125 = 5T^2$

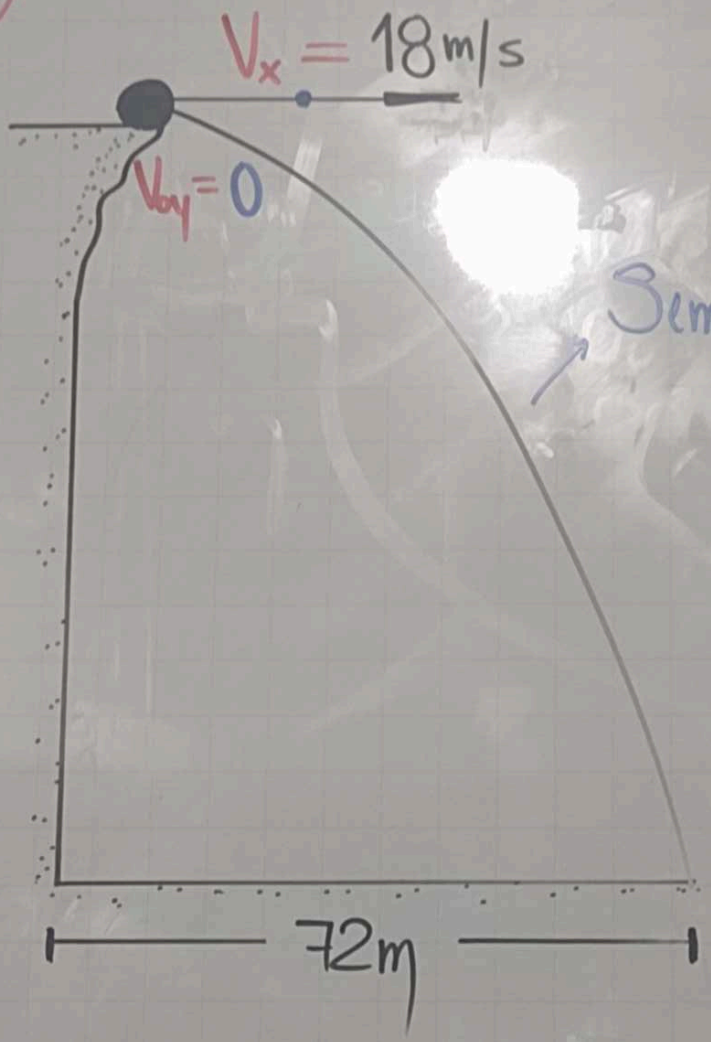
$T = 5s$

$d = V \cdot T$

$X = 20 \cdot 5$

$X = 100m$ ✓

12



$d = V_x T$

$72 = 18 \cdot T$

$T = 4s$

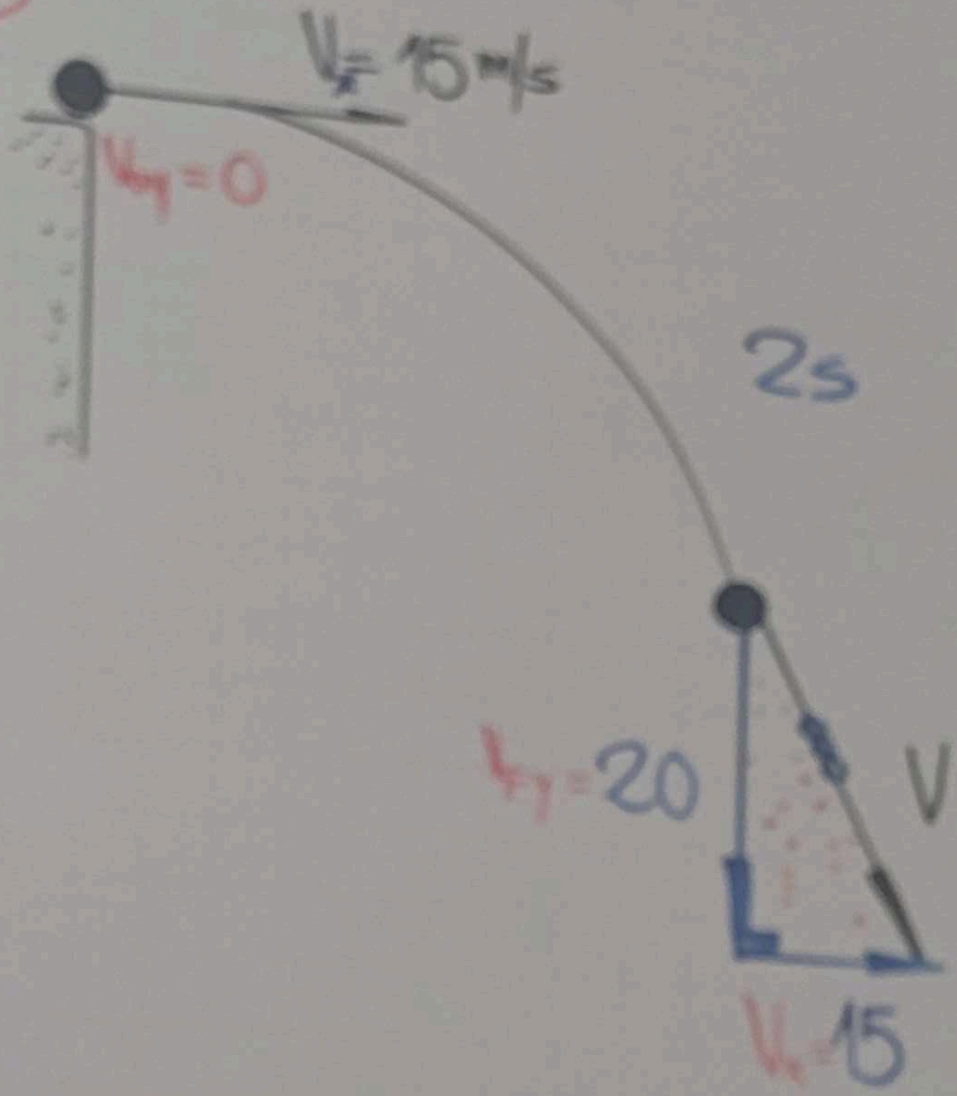
$h = \cancel{V_{0y} T} + \frac{1}{2} g T^2$

$h = 5T^2$

$h = 5(4)^2$

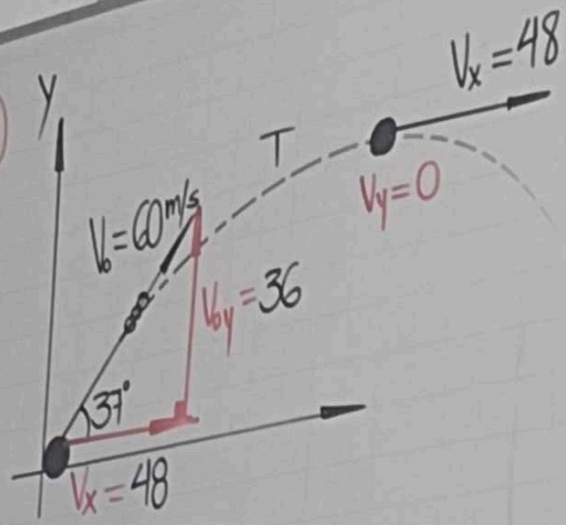
$\therefore h = 80m$

13



$V = 25$ m/s

17



$T = 3{,}6s$

18 Parabólico.

$$h_{máx} = \frac{1}{8} g T_v^2$$

$$h_{máx} = \frac{1}{8}(10)(8)^2$$

$$h_{máx} = 80\,m$$

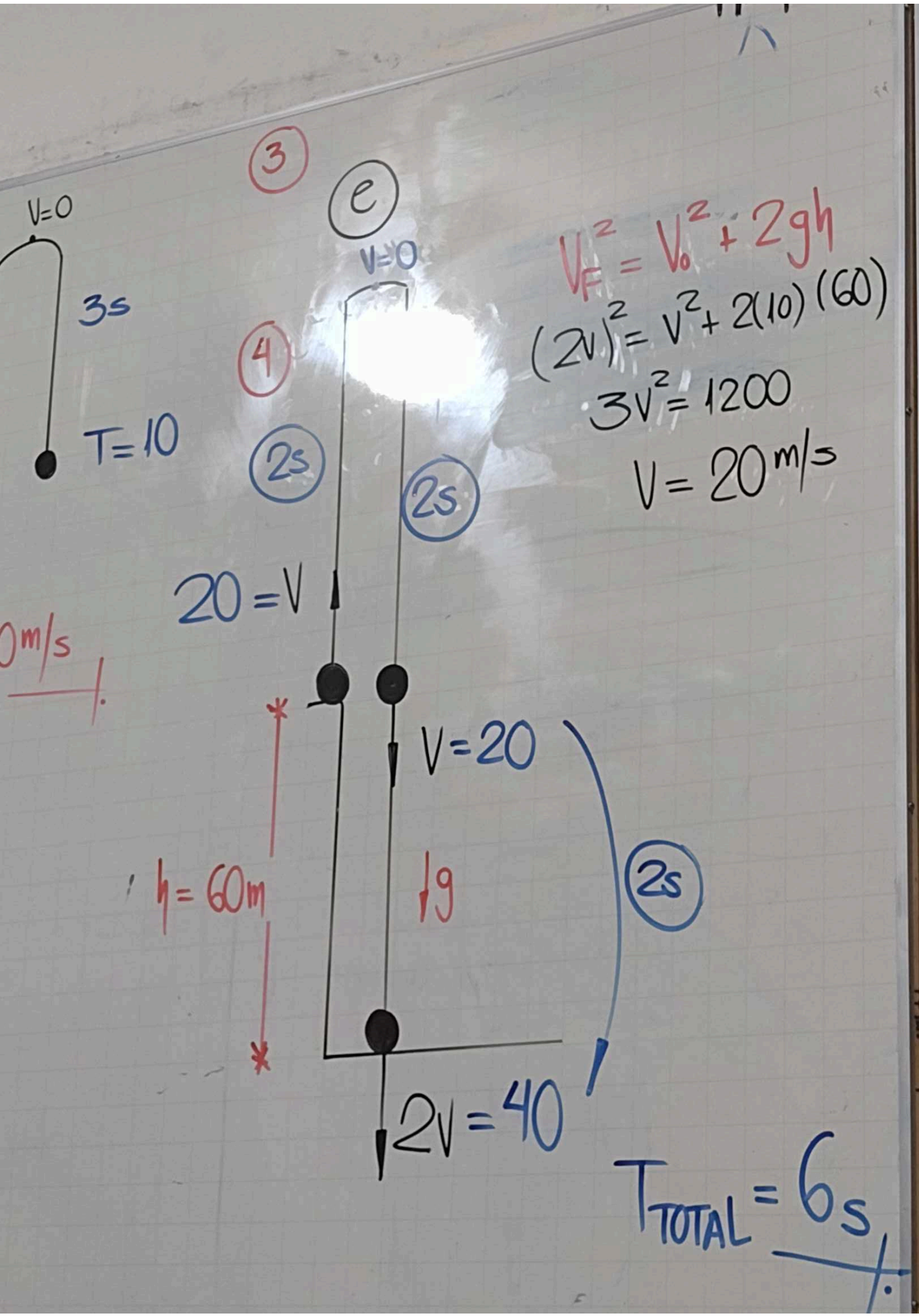
19

A

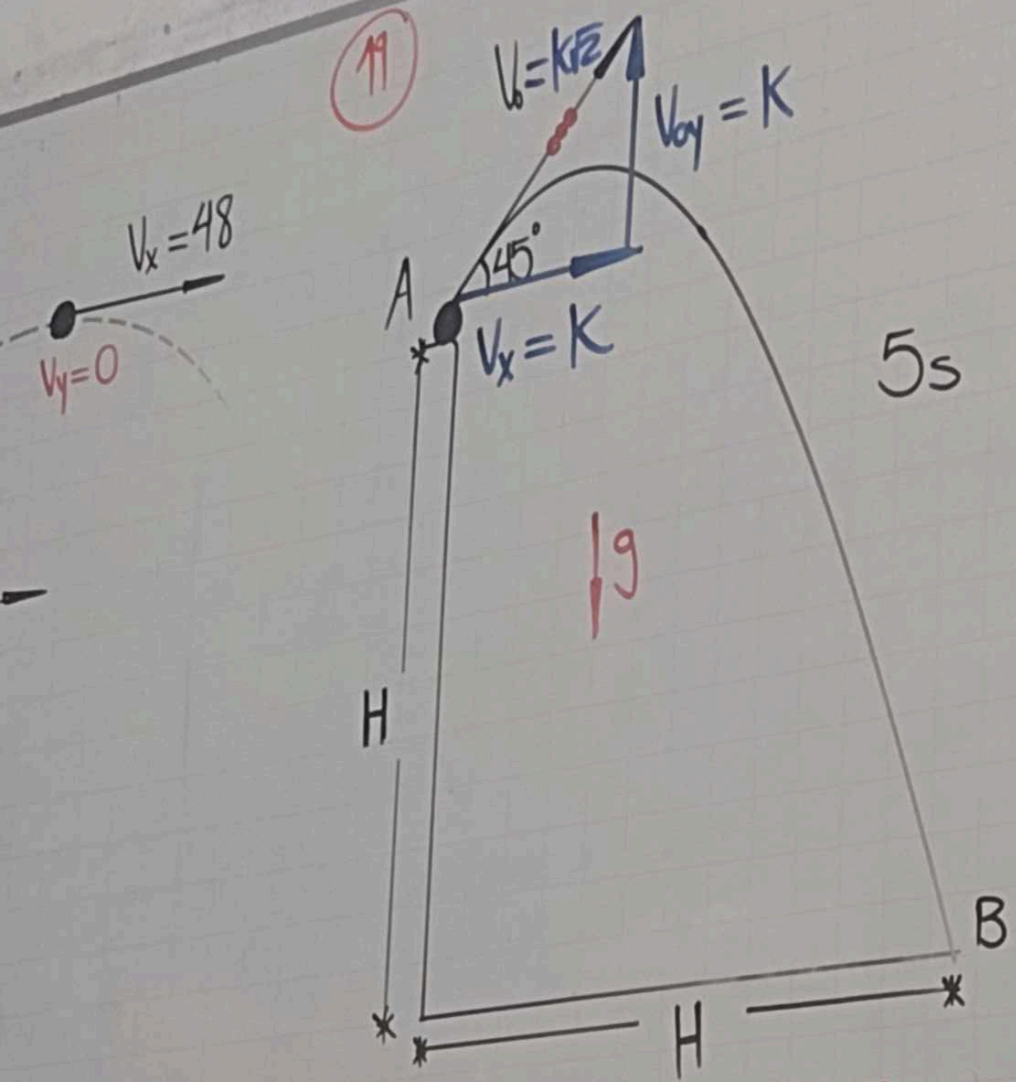
H

H

H


3
e
V=0
3s
T=10
4
2s
2s
20 = V
V=20
h=60m
g
2s
2V=40
$V_F^2 = V_0^2 + 2gh$
$(2V)^2 = V^2 + 2(10)(60)$
$3V^2 = 1200$
$V = 20\ m/s$
$T_{TOTAL} = 6s$

(11)



$$d = V_x T \qquad \vec{h} = \vec{V}_{0y} T + \frac{1}{2}\vec{g} T^2$$

$$H = K.5 \qquad -H = K(5) + \frac{1}{2}(-10)(5)^2$$

$$H = (12{,}5)(5) \qquad -5K = 5K - 125$$

$$H = 62{,}5\,m \qquad K = 12{,}5$$

5s

B

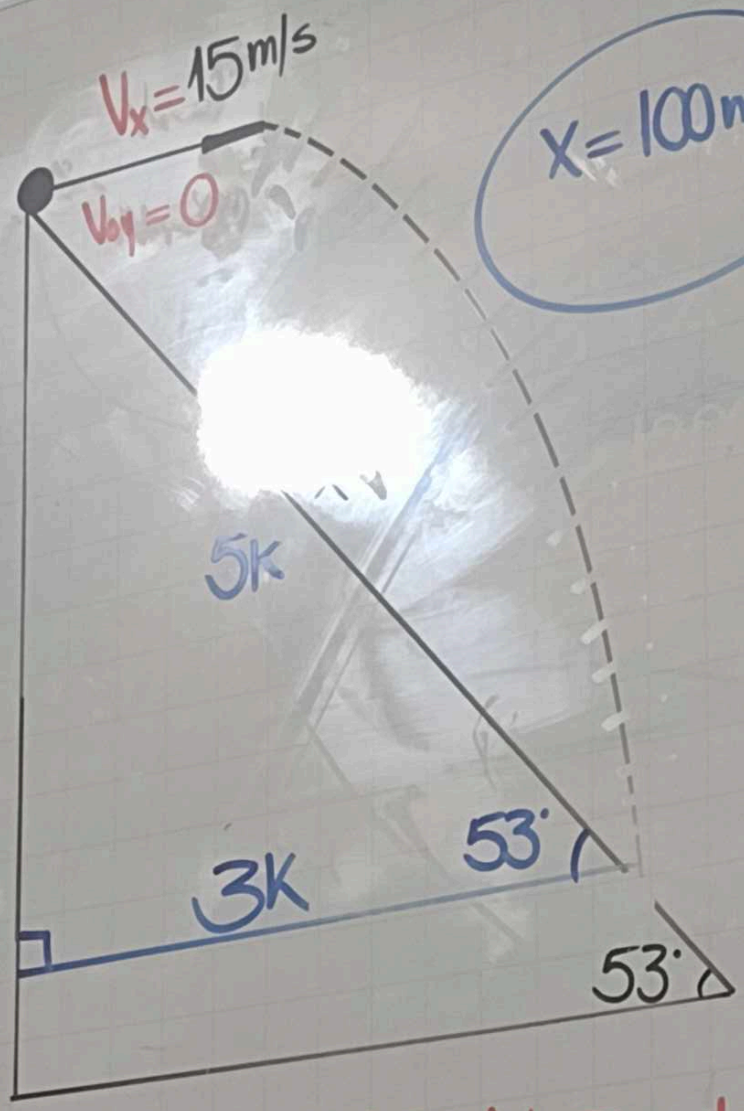
$\vec{V}_{oy}T + \frac{1}{2}\vec{g}T^2$

$k(5) + \frac{1}{2}(-10)(5)^2$

$= 5k - 125$

$k = 12{,}5$

(15)



*) $d = V_x \cdot T$

$3K = 15.T$

$K = 5T$

$K = 20$

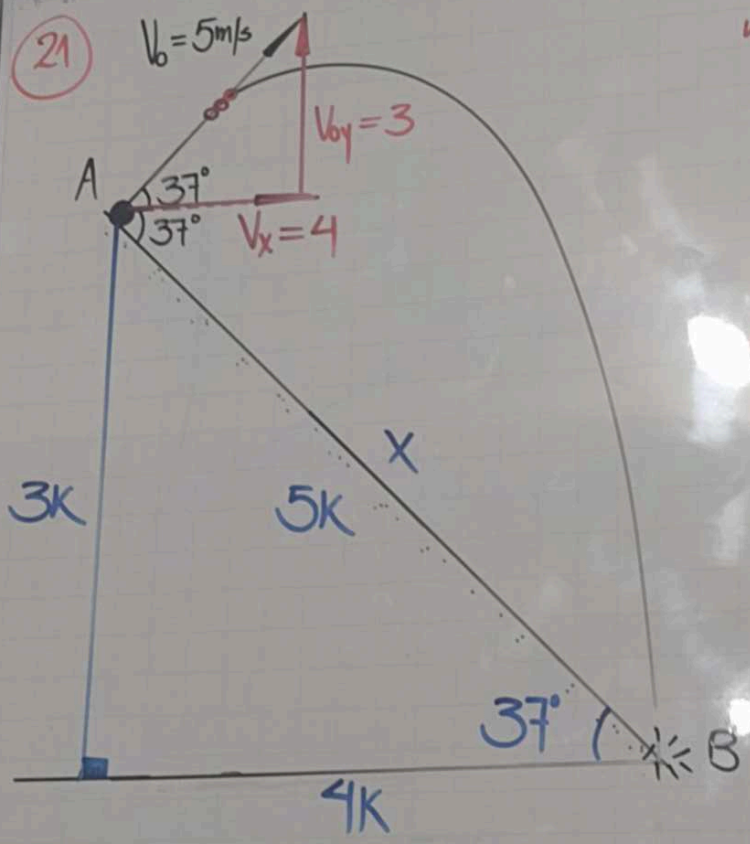
*) $h = V_{oy}T + \frac{1}{2}gT^2$

$4K = 5T^2$

$4(5T) = 5T^2$

$T = 4s$

(21) $V_0 = 5\,m/s$



✓ $d = V_x \cdot T$

$4K = 4 \cdot T$

$K = T$

✓ $\vec{h} = \vec{V}_{0y} T + \frac{1}{2} \vec{g} T^2$

$-3K = 3T + \frac{1}{2}(-10) T^2$

$-3T = 3T - 5T^2$

$5T = 6$

$T = 6/5$

$X = 5(6/5)$

$X = 6\,m$

16