No.
Date

Materi 3 Latihan

1) $h = 400$ m
$v = 80$ m/s
$g = 10$ m/s^2

* $h = v_{y0} \pm \frac{1}{2} at^2$
$t = \sqrt{\frac{2h}{g}}$
$= \sqrt{\frac{800}{10}}$
$= \sqrt{80}$
$= 8.94$ s

$x = v \cdot t$
$x = 80 \cdot 8,94$
$x = 715,2$ m //

2) $h = 25$ m
$v = 40$ m/s
elevasi $= 30^0$
$g = 10$ m/s^2

* $v_y = v_0 \cdot \sin 30^0$
$= 40 \cdot 1/2$
$= 20$

$v_y^2 = v_0^2 - 2gy$
$0 = (20)^2 - 2 \cdot 10 \cdot y$
$20y = 400$
$y = \frac{400}{20}$
$y = 20$ m //

3) $v_0 = 50$ m/s
elevasi $= 60^0$
$g = 10$ m/s^2

* $v_y, v_0 \cdot \sin 60^0$
$= 50 \cdot 1/2\sqrt{3}$
$= 25\sqrt{3}$

$t = \frac{v_0}{g} = \frac{50}{10}$
$= 5$ sekon //

estudee