



$\Delta y = v_i t + \frac{1}{2} a t^2$
 $-7 = -4.9 t^2$
 $\frac{-7}{-4.9} = \frac{-4.9 t^2}{-4.9}$
 $1.4 = t^2$
 $t = 1.18$

x	y
$\Delta x = .25$	$\Delta y = -7$
$v_{ix} = .68$	$v_{iy} = 0$
$v_{fx} = .68$	$v_{fy} =$
$a_x = 0$	$a_y = -9.8$
$t = .37$	$t = .37$

$v_x = \frac{\Delta x}{\Delta t}$
 $v_x = \frac{.25}{.37}$
 $.68$

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$\Delta y = \frac{1}{2} (a) t^2$
 $-2.7 = -4.9 t^2$
 $\frac{-2.7}{-4.9} = \frac{-4.9 t^2}{-4.9}$
 $1.55 = t^2$

x	y
$\Delta x = 5.6m$	$\Delta y = -2.7$
$v_{ix} = 7.6$	$v_{iy} = 0$
$v_{fx} = 7.6$	$v_{fy} =$
$a_x = 0$	$a_y = -9.8$
$t = .74s$	$t = .74s$

$v_x = \frac{\Delta x}{\Delta t}$
 $7.6 = \frac{\Delta x}{.74}$
 $7.6(.74) = \Delta x$
 $\Delta x = 5.6m$

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$25 \sin 45 = 17.7$
 $25 \cos 45 = 17.7$
 $\Delta x = ?$
 $\Delta t = ?$
 $y_{max} = ?$

x	y
$\Delta x = 63.7$	$\Delta y = 0$
$v_{ix} = 17.7$	$v_{iy} = 17.7$
$v_{fx} = 17.7$	$v_{fy} = -17.7$
$a_x = 0$	$a_y = -9.8$
$t = 3.6s$	

$v_y = v_i + at$
 $-17.7 = 17.7 + (-9.8)t$
 $-35.4 = -9.8t$
 $\frac{-35.4}{-9.8} = \frac{-9.8t}{-9.8}$
 $t = 3.6s$

$y_{max} = \frac{1}{2} a t^2$
 $y_{max} = 1.8$

$y_{max} = v_i t + \frac{1}{2} a t^2$
 $= 17.7(1.8) + \frac{1}{2}(-9.8)(1.8)^2$
 $y_{max} = 15.9m$

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