

Using The Equations Of Kinematics To Determine The Velocity Of A Potato.

We start by listing what we know in a table of X and Y components.

Trial # 1

	X	Y
S	88.5 Meters	0 Meters
V_i	?	?
V_f	?	?
a	0	-9.8 M/S ²
t	?	?

Using trigonometry we can fill in some of the variables.

	X	Y
S	88.5 Meters	0 Meters
V_i	$\cos 35^\circ V_i$	$\sin 35^\circ V_i$
V_f	$\cos 35^\circ V_f$	$-(\sin 35^\circ V_i)$
a	0	-9.8 M/S ²
t	?	?