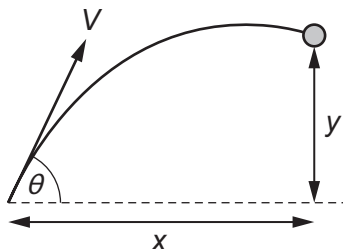


- 7 A ball is thrown with velocity V at an angle θ to the horizontal.



The acceleration of free fall is g . Assume that air resistance is negligible.

What are the horizontal displacement x and the vertical displacement y after time t ?

	x	y
A	$Vt \cos \theta$	$Vt \sin \theta + \frac{1}{2}gt^2$
B	$Vt \cos \theta$	$Vt \sin \theta - \frac{1}{2}gt^2$
C	$Vt \sin \theta$	$Vt \cos \theta + \frac{1}{2}gt^2$
D	$Vt \sin \theta$	$Vt \cos \theta - \frac{1}{2}gt^2$