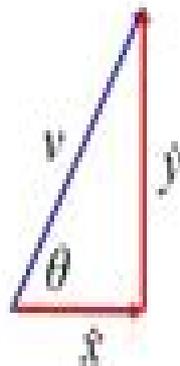
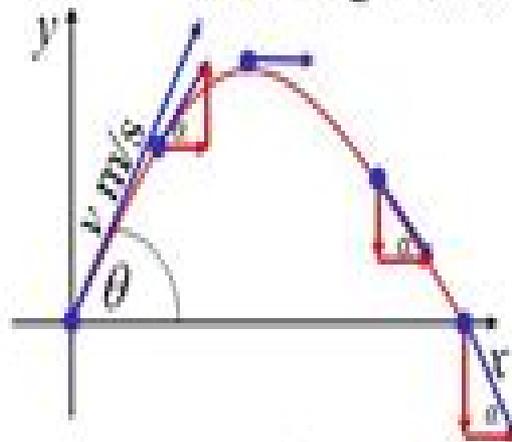


Projectile Motion

In Extension 1 we consider the two-dimensional motion of a particle projected into the air, subject to gravity only (i.e. we assume that air resistance is negligible), $\ddot{x} = 0$ $\ddot{y} = -g\mathbf{j}$

Initial conditions when $t = 0$; particle is projected with a velocity, $v \text{ ms}^{-1}$, at an angle of θ to the horizontal



$$\frac{\dot{x}}{v} = \cos \theta$$

$$\dot{x} = v \cos \theta$$

$$x = 0$$

$$\frac{\dot{y}}{v} = \sin \theta$$

$$\dot{y} = v \sin \theta$$

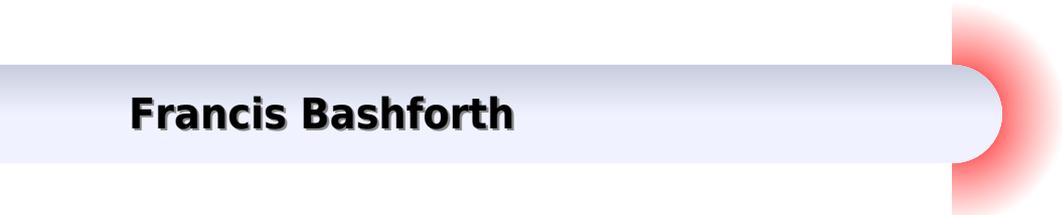
$$y = 0$$

Note:
maximum range

$$\theta = 45^\circ$$

Projectile Motion Vectors And Projectiles Answer Key

Francis Bashforth



Projectile Motion Vectors And Projectiles Answer Key:

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the Authors Chronograph Francis Bashforth,1873 **A Mathematical Treatise on the Motion of Projectiles, Founded Chiefly on the Results of Experiments Made with the Author's Chronograph** Francis Bashforth,1850 A Mathematical Treatise on the Motion of Projectiles, Founded Chiefly on the Results of en Experiments Made with the Authors Chronograph Francis Bashforth,1881 *Moment Exerted on a Coning Projectile by a Spinning Liquid in a Spheroidal Cavity* Charles H. Murphy,1986 The moment exerted by a low viscosity spinning liquid in a coning cylindrical container has been well predicted by the classical Stewartson Wedemeyer theory This boundary layer theory is extended to the case of a completely filled spheroidal cavity and liquid side moments are computed as functions of fineness ratio and Reynolds number It is shown that only one eigenfrequency is important for this calculation and for usual flight coning frequencies large side moments can only occur for a fineness ratio between unity and 1.5 Keywords Inviscid solutions Orthogonality Liquid moment Liquid filled projectiles Spinning projectiles Author

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