

Linear Motion in the Horizontal direction

PROJECTILE Motion

Free Fall Motion

Definition: motion in 2 directions, horizontal and vertical

Vector quantity

Number unit direction
acceleration = gravity
velocity

Scalar

Number unit
temperature
speed distance

Components

vector

Resultant

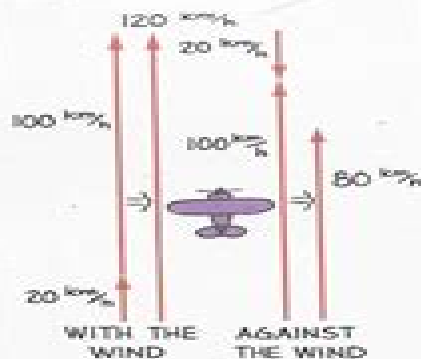
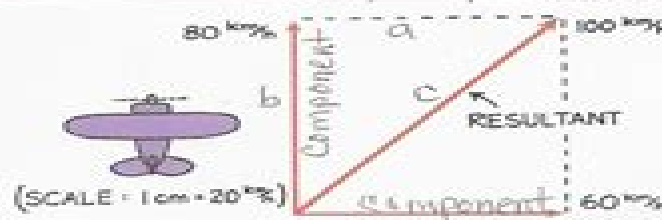


Figure 3.2 Δ
The airplane's velocity relative to the ground depends on the airplane's velocity relative to the air and on the wind's velocity.



$$a^2 + b^2 = c^2$$

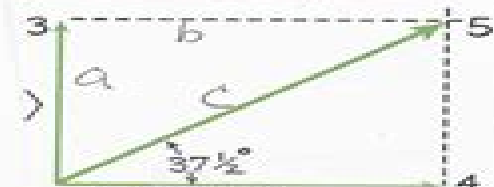


Figure 3.4 Δ
The 3-unit and 4-unit vectors add to produce a resultant vector of 5 units, at 37.5° from the horizontal.

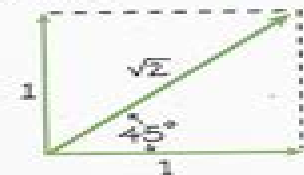


Figure 3.5 Δ
The diagonal of a square is $\sqrt{2}$, or 1.414, times the length of one of its sides.

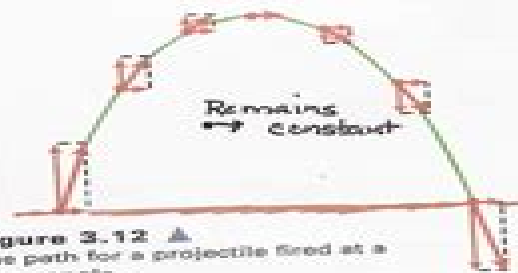
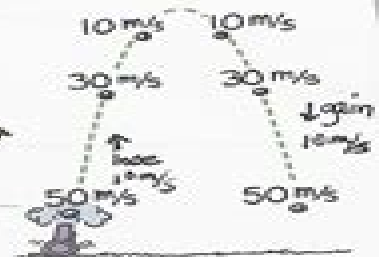


Figure 3.12 Δ
The path for a projectile fired at a steep angle.

Figure 3.16 Δ
Without air resistance, the speed lost while the cannonball is going up equals the speed gained while it is coming down. The time to go up equals the time to come down.



Conceptual Physics Projectile Motion Guide

RJ Alexander



Conceptual Physics Projectile Motion Guide:

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