

**UNIT 5 Vectors**

**5.2 – Analytical Method of Vector Addition**

Vector addition is dealt in three conceptually equivalent ways:

1. graphical methods
2. analytical methods
3. algebraic methods

Sin law  $\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$   
Cos law  $c^2 = a^2 + b^2 - 2ab \cos C$

Recall the tools needed to solve vector problems:

Pythagorean Theorem  $C^2 = a^2 + b^2$   
 $C = \sqrt{a^2 + b^2}$

Primary Trig Ratios  $\sin \theta = \frac{b}{c}$   $\cos \theta = \frac{a}{c}$   $\tan \theta = \frac{b}{a}$



**Vector addition: graphical method**

If two vectors are represented by two sides of a triangle in sequence, then third closing side of the triangle, in the opposite direction of the sequence, represents the sum (or resultant) of the two vectors in both magnitude and direction.



For adding  $\vec{A} + \vec{B} = \vec{B} + \vec{A}$

$\vec{A} + \vec{B} = \vec{B} + \vec{A}$

$\vec{A} - \vec{B} = \vec{A} + (-\vec{B})$



**Vector addition: Analytical method**

We shall analyze vector addition in the form of triangle law to obtain the magnitude of the sum of the two vectors. Let P and Q be the two vectors to be added, which make an angle  $\theta$  with each other. We arrange the vectors in such a manner that two adjacent sides OA and AB of the triangle OAB, represent two vectors P and Q respectively as shown in the figure.



Get the 2 main components for vector Q

x-comp =  $Q \cos \theta$

y-comp =  $Q \sin \theta$



$R_x = P + Q \cos \theta$   
 $R_y = Q \sin \theta$

$R = \sqrt{(P + Q \cos \theta)^2 + (Q \sin \theta)^2}$

**Angle Directions** – using an x – y plane we define angle directions in the following way:

$\angle \alpha = \tan^{-1} \frac{y}{x} =$

$\angle \alpha = \tan^{-1} \frac{Q \sin \theta}{P + Q \cos \theta}$

**Example:** An airplane flying toward  $\theta$  at 90.0 km/h is being blown toward  $90^\circ$  at 50.0 km/h. What is the resultant velocity of the plane?



$R = \sqrt{90^2 + 50^2} = \sqrt{8100 + 2500} = \sqrt{10600} = 102.96 \text{ km/hr}$   
 $\approx 103 \text{ km/hr}$

$\theta = \tan^{-1} \frac{y}{x} = \tan^{-1} \frac{50}{90} = 29.1^\circ$

$|R| = 103 \text{ km/hr } [29^\circ \text{ N of E}]$

# Two Dimensional Motion And Vectors Worksheet Answers

**Jicheng Xie**



**Two Dimensional Motion And Vectors Worksheet Answers:**

## Reviewing **Two Dimensional Motion And Vectors Worksheet Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Two Dimensional Motion And Vectors Worksheet Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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