

NEET FARTDAFY SISH

Physics

Motion in Straight Line

By- Aman Singh Sir







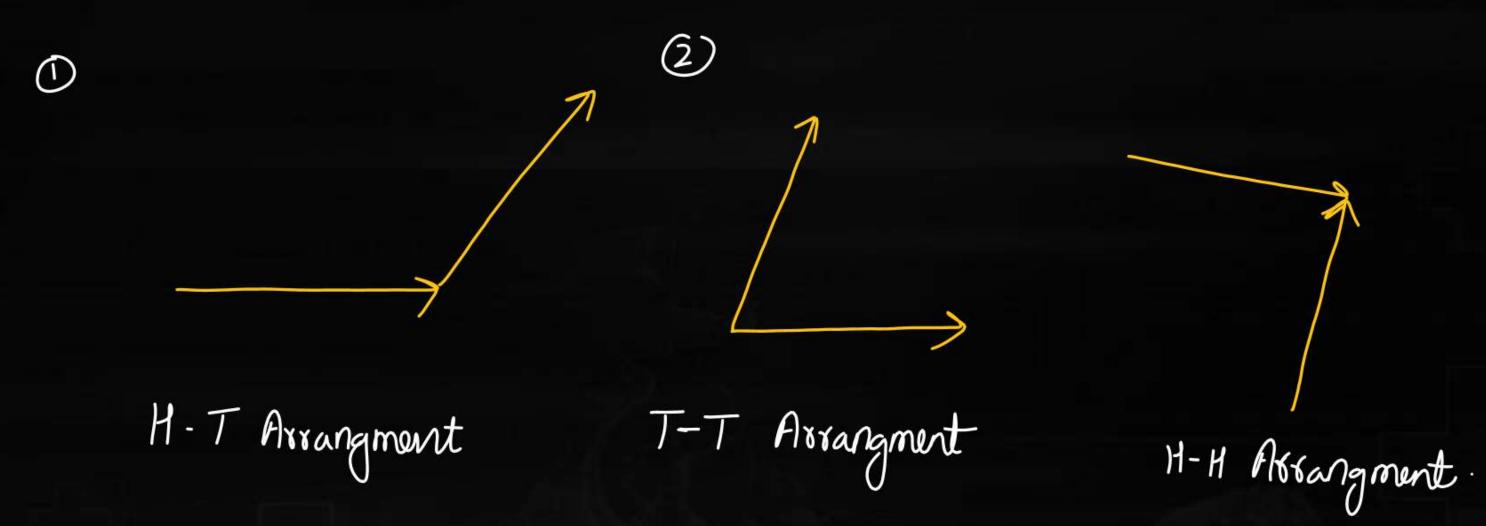


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- 1) Angle blw Vector's
- 3) Addition of vectors Graphical Method.
- 3 Magnitude of Resultant.





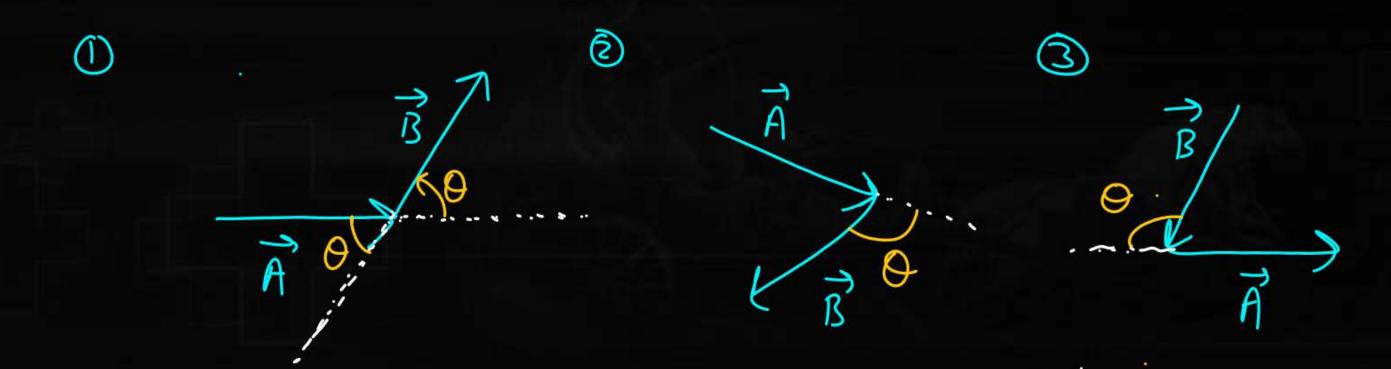




Angle blw vector's

When (H-T) or (T-H) are joined.

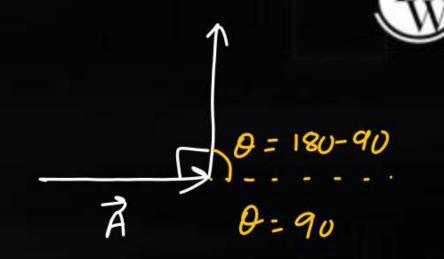
Angle blw vector will be smaller angle taken from Extended line from one vector to another.

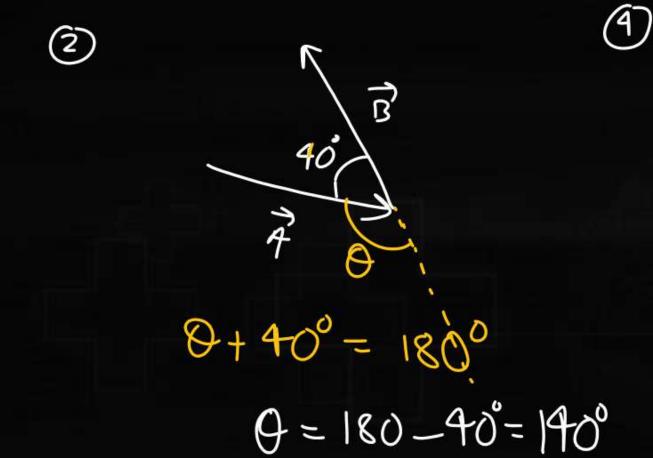


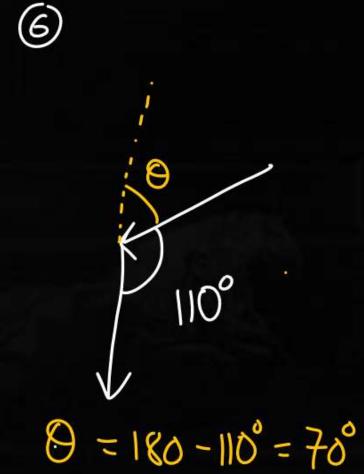
$$\frac{7}{4}$$

$$0 = 180 - 150 = 30^{\circ}$$

$$\frac{60}{7}$$
 $0 = 180-60$
= 120°



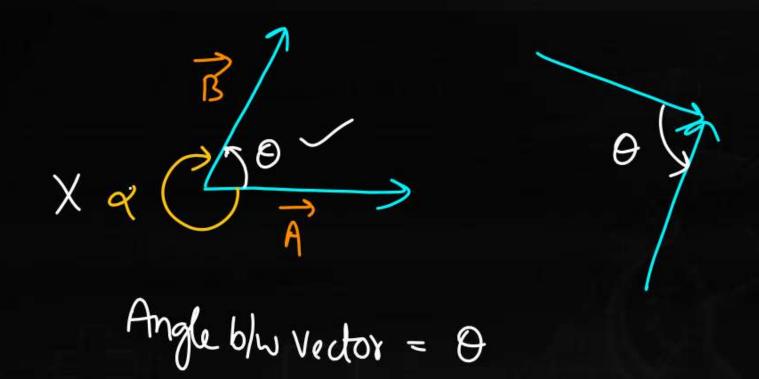




2) When T-T or H-H are joined.

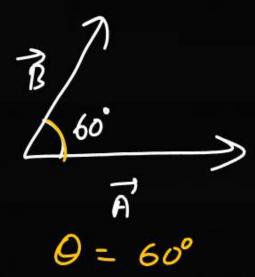


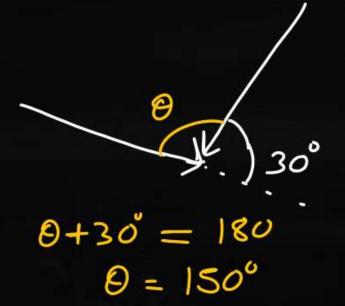
Angle 4w vectors will be smaller Angle blw them taken Directly.

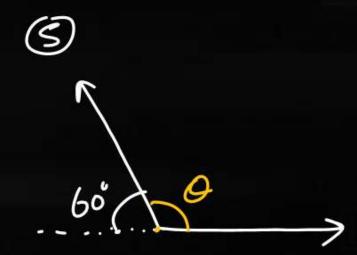


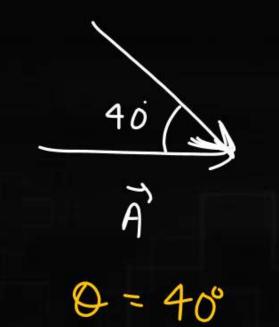
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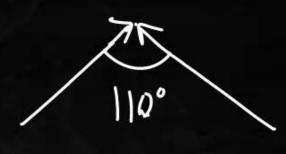






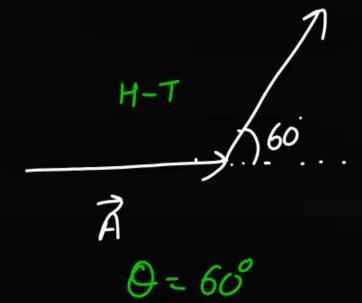


4)



$$\theta = 180 - 60$$







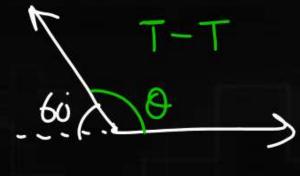




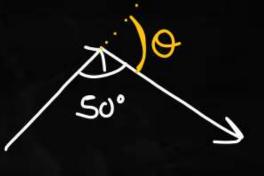


0=180-45=135°

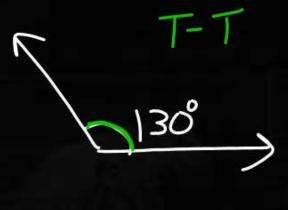




(F)



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Addition of Vectors: (Graphical Method)

- 1) Triangular law of Vector addition: When (H-T) or (T-H) Arrangment.
 - when two vectors are joined such that They are Representing adjacent sides of triangle then there Resultanot (sum) will be closing side of Toiangle taken in opposite order.

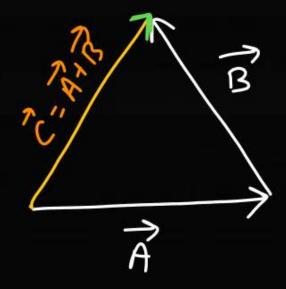
CIATB A

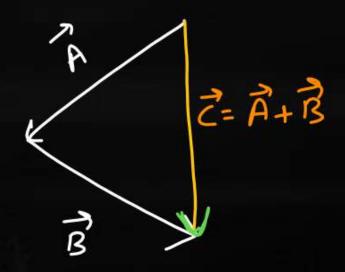
- · Bachi hui Tail to Tail se jodengey.
- · 1) I) Head to Head 11 1).

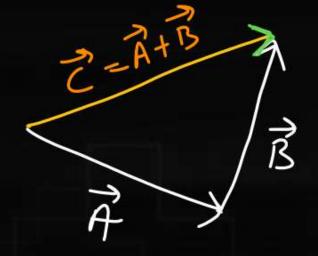
Draw Resultant Vector == A+B

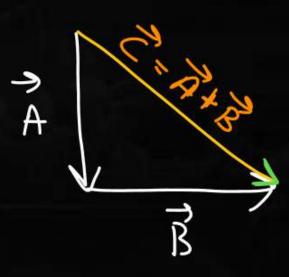


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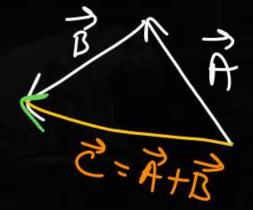








(3)





Orignal LB = A+B : B - Parallely shifted lector

TRANSA. IB

Alternate Solution. A CHARACTER TA



Parallelogram Law: When (T-T) or (H+H) Arrangement.

+) If two vectors are Representing Adjacent sides of
Parallelogram then Resultant will be Diagonal of
Parallelogram Passing through intersection of original vectors.

