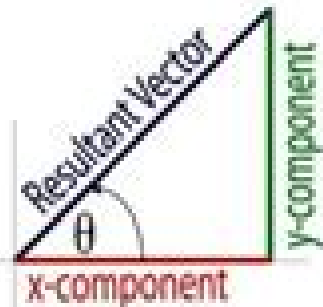
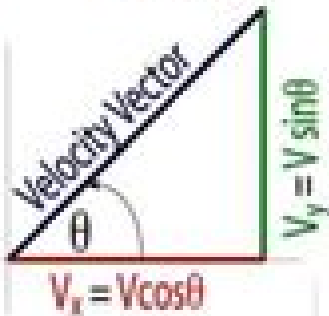


# Chapter 3: Two Dimensional Motion

## Vectors in Physics



$$\vec{V} = \vec{V}_x + \vec{V}_y$$



$$\vec{F} = \vec{F}_x + \vec{F}_y$$



Pythagorean's Theorem

$$V^2 = V_x^2 + V_y^2$$

magnitude of resultant

$$V = \sqrt{V_x^2 + V_y^2}$$

direction of resultant

$$\theta = \tan^{-1}\left(\frac{y}{x}\right)$$

Random Vectors

$$\vec{A} = 7.7x + 4.5y$$

$$\vec{B} = -9.6x + 3.0y$$

$$\vec{C} = -9.3x + -10.5y$$

Analytical

Component Addition

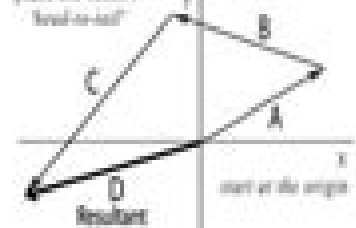
$$\vec{A} = 7.7x + 4.5y$$

$$\vec{B} = -9.6x + 3.0y$$

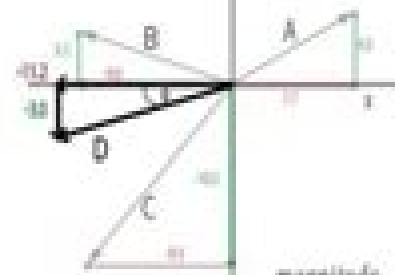
$$\vec{C} = -9.3x + -10.5y$$

$$\vec{D} = -11.2x + -3.0y$$

using a ruler and a protractor  
place the vectors  
"head-to-tail"



Geometrical



magnitude

$$|\vec{D}| = \sqrt{-11.2^2 + -3.0^2} = 11.6$$

direction

$$\theta = \tan^{-1}\left(\frac{-3.0}{-11.2}\right) = 15^\circ$$

Trigonometry  
"solved for"

$$\sin\theta = \frac{o}{h}$$

$$\cos\theta = \frac{a}{h}$$

$$\tan\theta = \frac{o}{a}$$

## Section 1: Vectors

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**S Marginson**



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