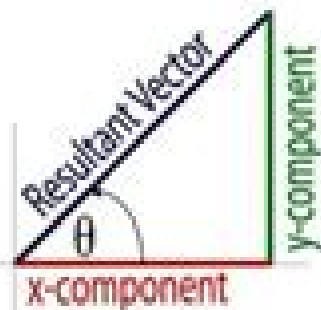
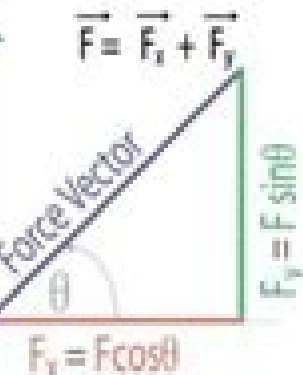
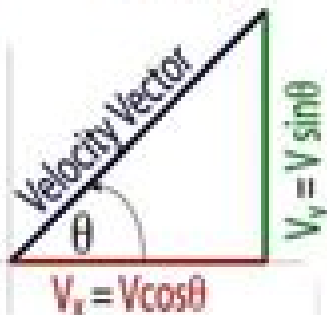


Chapter 3: Two Dimensional Motion

Vectors in Physics



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



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

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

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

Random Vectors

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

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

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

Analytical

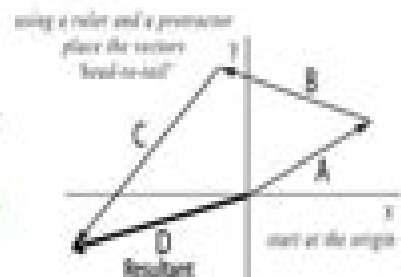
Component Addition

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

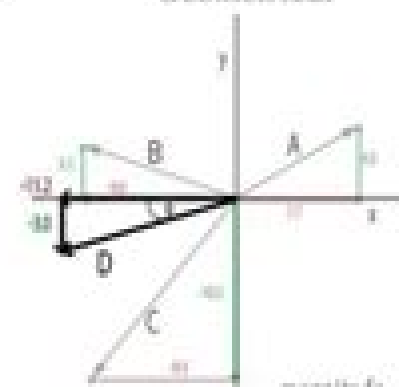
$$\vec{B} = -9.6x + 3.0y$$

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

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



Geometrical



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

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

Section 1: Vectors

Chapter3 Two Dimensional Motion And Vectors

Albert A Gayle



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