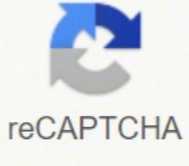
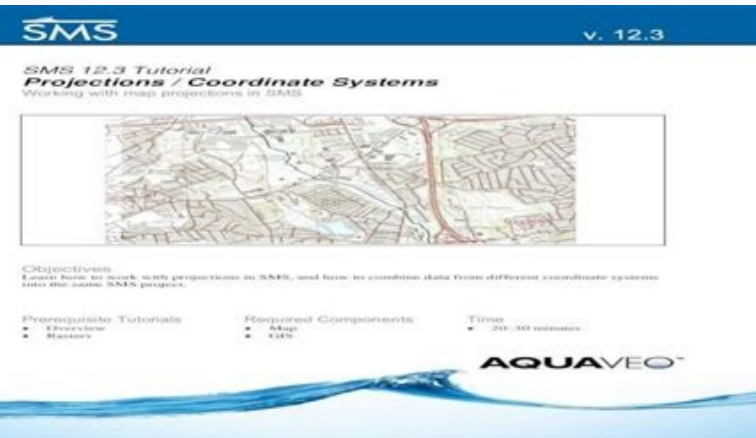




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CHAPTER II: RESULTANTS OF FORCE SYSTEMS

Introduction:

The effect of a system of forces on a body is usually expressed in terms of a **resultant**. This determines the motion of the body. If the **resultant is zero**, then the body will be in **equilibrium** and will not change its original state of motion (STATICS). Else, if the **resultant is not zero**, then the body will have a varying station of motion (DYNAMICS).

FORCES AND COMPONENTS

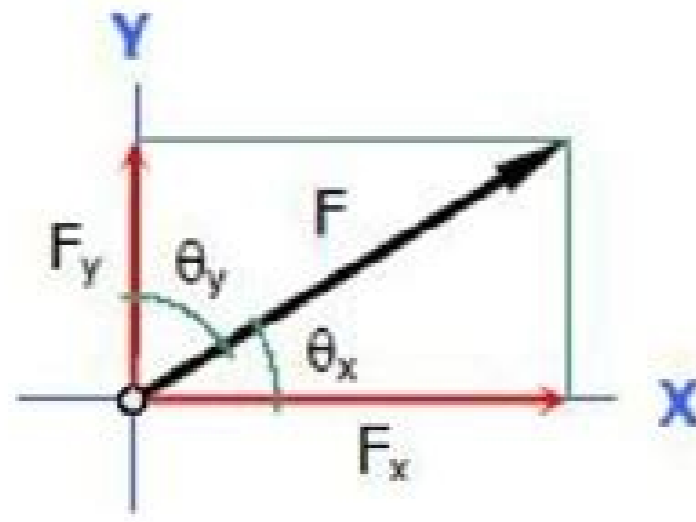
Components of a force - are the two or more forces, which acting together, will produce the same effect as the original force.

$$F_x = F \cos \theta_x = F \sin \theta_y$$

$$F_y = F \sin \theta_x = F \cos \theta_y$$

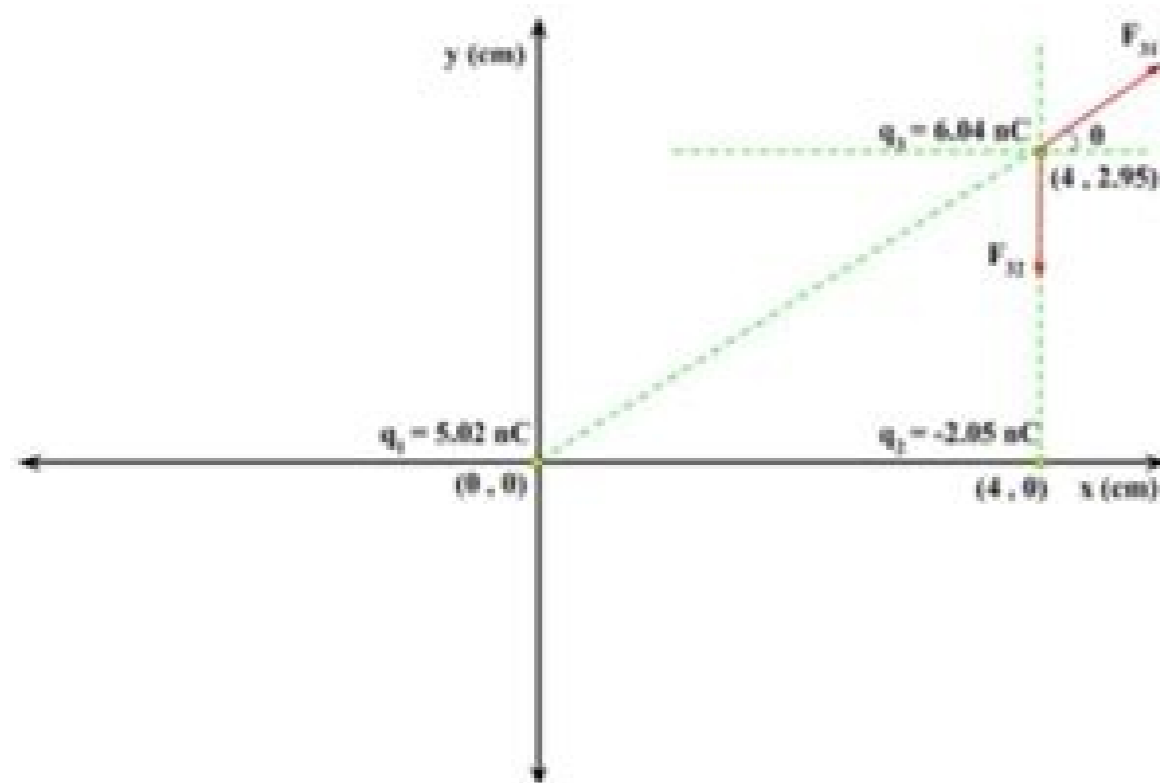
$$F = \sqrt{F_x^2 + F_y^2}$$

$$\tan \theta_x = \frac{F_y}{F_x}$$



Sign of F_x	Sign of F_y	Direction of F with respect to Origin O	Diagram
+	+	Up & right	

Answer:



$$q_1 = 5.02 \text{ nC} = 5.02 \times 10^{-9} \text{ C}$$

$$q_2 = -2.05 \text{ nC} = -2.05 \times 10^{-9} \text{ C}$$

$$q_3 = 6.04 \text{ nC} = 6.04 \times 10^{-9} \text{ C}$$

$$r_{31} = \sqrt{4^2 + 2.95^2} \text{ cm} = 4.97016096319 \text{ cm} = 4.97016096319 \times 10^{-2} \text{ m}$$

$$r_{32} = 4 \text{ cm} = 4 \times 10^{-2} \text{ m}$$

$$\theta = \tan^{-1} \left(\frac{2.95}{4} \right) = 36.4087745678^\circ$$

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