

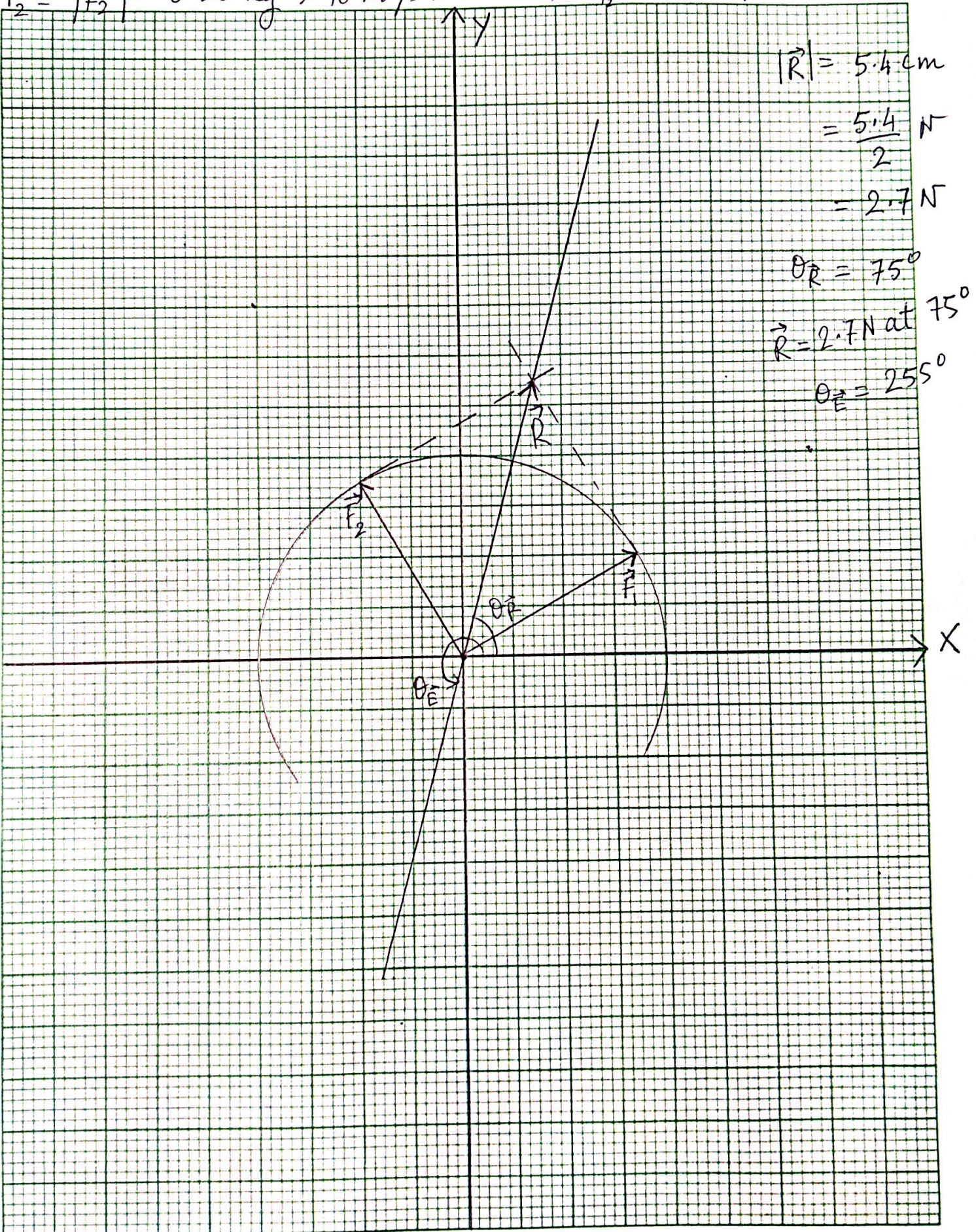
MEASUREMENT #1

$$F_1 = |\vec{F}_1| = 0.20 \text{ kg} \times 10 \text{ m/s}^2 = 2.0 \text{ N}, \theta_{\vec{F}_1} = 30^\circ$$

$$F_2 = |\vec{F}_2| = 0.20 \text{ kg} \times 10 \text{ m/s}^2 = 2.0 \text{ N}, \theta_{\vec{F}_2} = 120^\circ$$

SCALE :

$$1 \text{ N} = 2 \text{ cm}$$



$$|\vec{R}| = 5.4 \text{ cm}$$

$$= \frac{5.4}{2} \text{ N}$$

$$= 2.7 \text{ N}$$

$$\theta_{\vec{R}} = 75^\circ$$

$$\vec{R} = 2.7 \text{ N at } 75^\circ$$

$$\theta_{\vec{R}} = 255^\circ$$