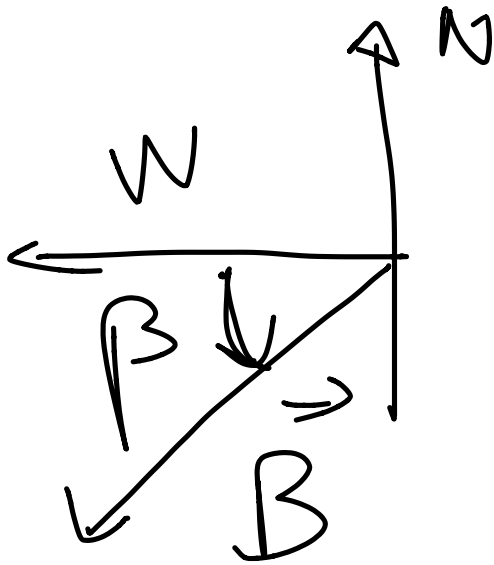


Es. 5 pag. 125

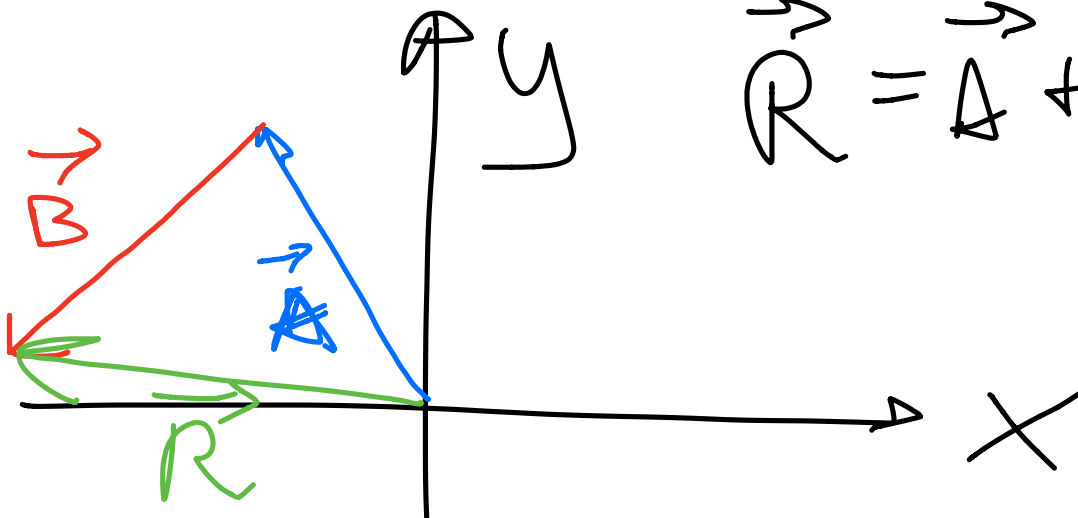
$$\alpha = 20^\circ$$

$$|\vec{A}| = 12 \text{ m}$$

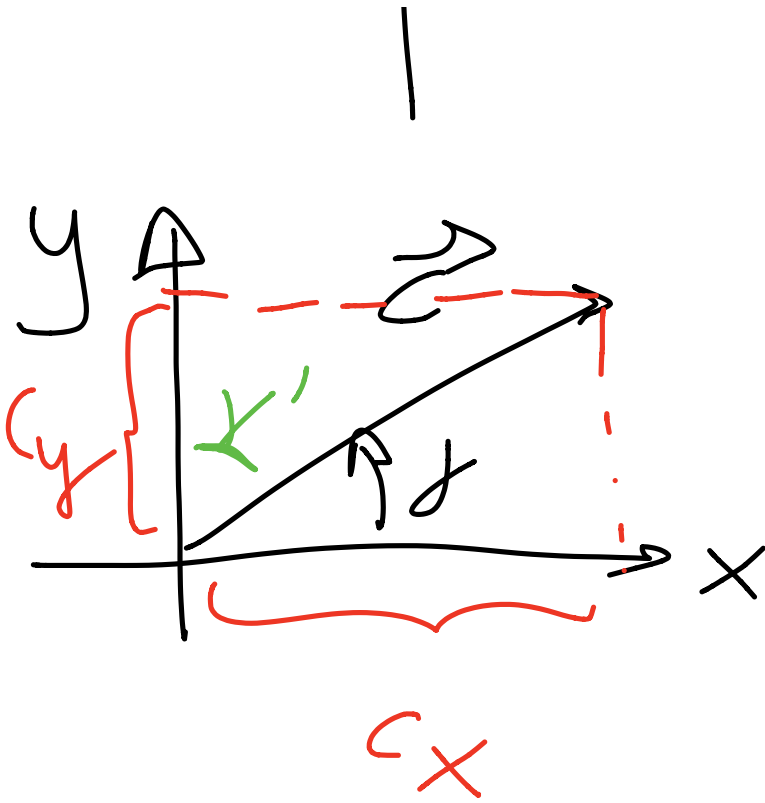


$$\beta = 40^\circ$$

$$|\vec{B}| = 20 \text{ m}$$



$$\vec{R} = \vec{A} + \vec{B}$$



$$c_x = c \cdot \cos \theta$$

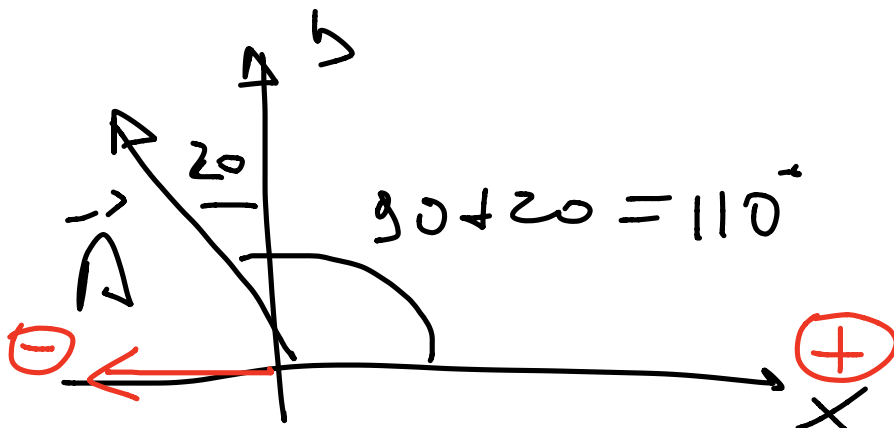
$$\downarrow$$

$$c \cdot \sin \theta'$$

$$c_y = c \cdot \sin \theta$$

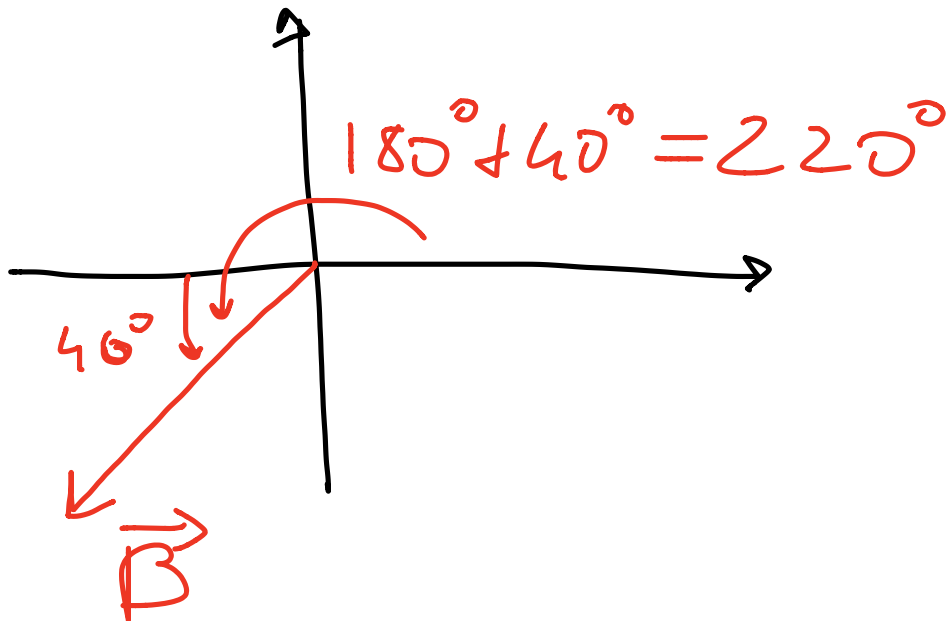
$$\downarrow$$

$$c \cdot \cos \theta'$$



$$A_x = A \cdot \cos(110^\circ) = \dots$$

$$A_y = A \cdot \sin(110^\circ) = \dots$$



$$B_x = B \cdot \cos(220^\circ)$$

$$B_y = B \cdot \sin(220^\circ)$$

$$\vec{R} = \vec{A} + \vec{B} = (R_x; R_y)$$

$$R_x = A_x + B_x$$

$$R_y = A_y + B_y$$

$$R_x = A \cdot \cos(110) + B \cdot \cos(220)$$

$$R_y = A \sin(110) + B \sin(220)$$

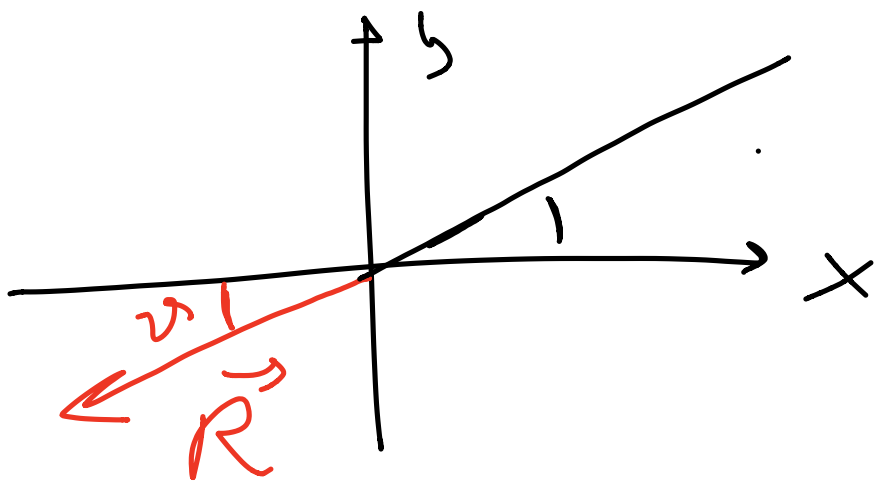
$$R_x = -19.42 \text{ m}$$

$$R_y = -1.58 \text{ m}$$

$$R = \sqrt{R_x^2 + R_y^2}$$

$$R = \sqrt{(-19.42 \text{ m})^2 + (-1.58 \text{ m})^2}$$
$$= 19.49 \text{ m}$$

$$\begin{aligned} \vartheta &= \tan^{-1}(R_y/R_x) \\ &= \tan^{-1}\left(\frac{-1.58 \text{ m}}{-19.42 \text{ m}}\right) \\ &= 4.65 \end{aligned}$$



$$|\vec{R}| = 19.49 \text{ m}$$

$$\vartheta = 4.65 \text{ Versus Sud}$$

da W.