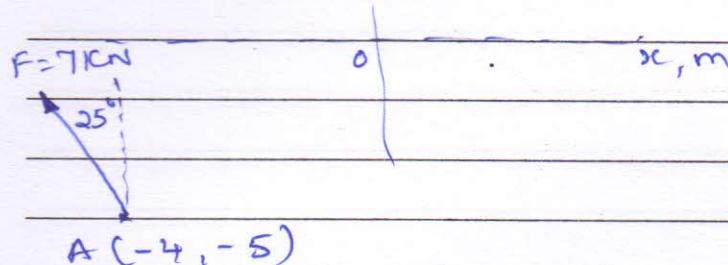


DATE

2/2

, m



A (-4, -5)

Given :-

$$F = 7 \text{ kN}, \theta = 25^\circ$$

To find

Express F as a vector, x & y component of F
Solution

$$\begin{aligned}\vec{F} &= F_x i + F_y j \\ &= -F \sin \theta + F \cos \theta j \\ &= -7 \times \sin 25 i + 7 \times \cos 25 j \\ &= -2.96 i + 6.34 j \text{ KN}\end{aligned}$$

Scalar Components

$$F_x = -2.96 \text{ KN}$$

$$F_y = 6.34 \text{ KN}$$

