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Given

F , β , α
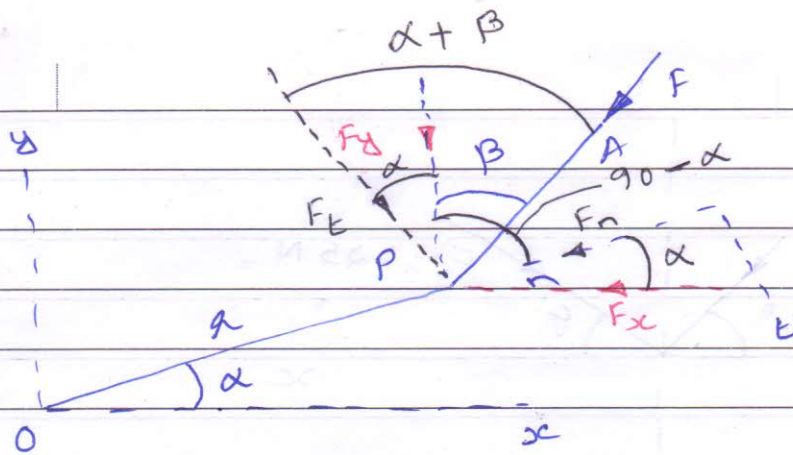
To find

$x-y$ and $n-t$ components

Solution

$F_x = -F \sin \beta$

$F_y = -F \cos \beta$

$F_n = F \sin(\alpha + \beta)$

$F_t = F \cos(\alpha + \beta)$