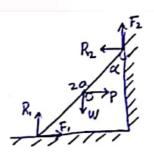


(7) (b) 
$$\underline{u = \tan \lambda}$$
Let length = 2a (say)
$$F_1 = \mu R_1 \quad O$$

$$F_2 = \mu R_2 \quad -2$$



$$R_{1} + F_{2} = W - 3$$

$$F_{1} + P = R_{2} - 6$$

$$\Rightarrow R_{1} (sind - u cosd) = R_{2} (cos d + u sind)$$

$$(from 3 29)$$

$$\Rightarrow R_2 = R_1 \times \frac{(\tan \alpha - \mu)}{(1 + \mu \tan \alpha)}$$

$$\Rightarrow$$
 R<sub>1</sub> + utan( $(x-\lambda)$ ) R<sub>1</sub> = W - 6

$$\frac{G}{G} \Rightarrow \frac{P}{W} = \frac{(\tan(\alpha - \lambda) - \mu)}{1 + \mu \tan(\alpha - \lambda)}$$

Coordition is that 
$$P$$
 should be +ve,  $\Rightarrow \frac{\alpha > 2\lambda}{}$ .

