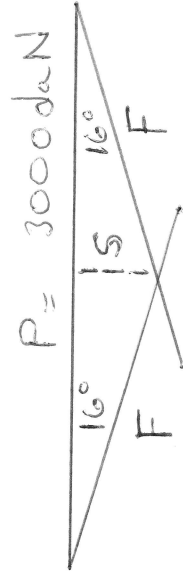


$$F = 1732.05 \text{ N}$$

$$S = 1732.05 \times \sin 30$$

$$S = 866.025 \text{ N}$$

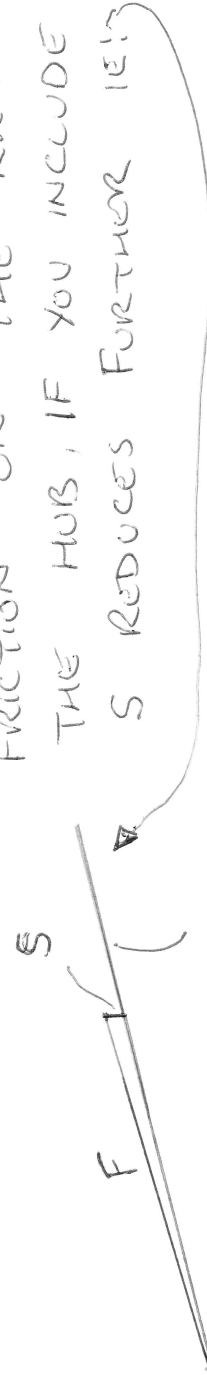
WITH FRICTION $\mu = 0$.



$$F = 1560 \text{ daN}$$

$$S = 429.99 \text{ daN}$$

HOWEVER THE CALCULATION HERE IGNORES FRICTION ON THE RIGHTHAND SIDE OF THE HUB, IF YOU INCLUDE THAT FRICTION



S REDUCES FURTHER 10%

$$S = 100 \text{ daN}$$

REACTION
LINE OF
FORCE AT
RIGHTHAND
SIDE OF HUB