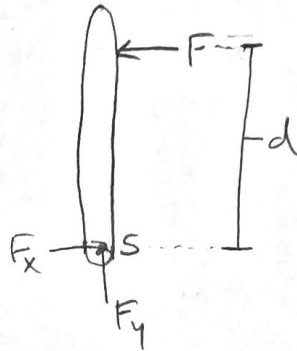
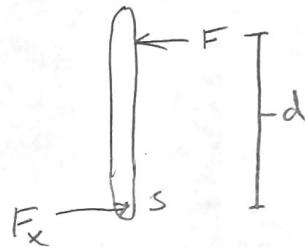


FBDS



↓ revise, since  $F_y = 0$



$$\begin{aligned} \sum \vec{F} &= 0 \\ \sum F &= F_x - F \\ F &= F_x \end{aligned}$$

$$\sum M_{/s} = 0$$

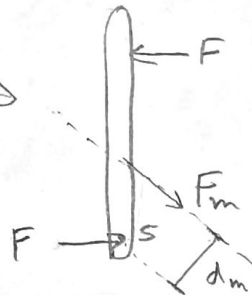
$$\sum M_{/s} = Fd = 0$$

$$\downarrow$$

$$F = 0$$

we forgot something in our model the muscle!

↓ revise



$$\sum M_{/s} = Fd - F_m d_m = 0$$

$$Fd = F_m d_m$$

$$F_m = F \frac{d}{d_m}$$

muscle needs to pull with force that is directly proportional to  $F$

