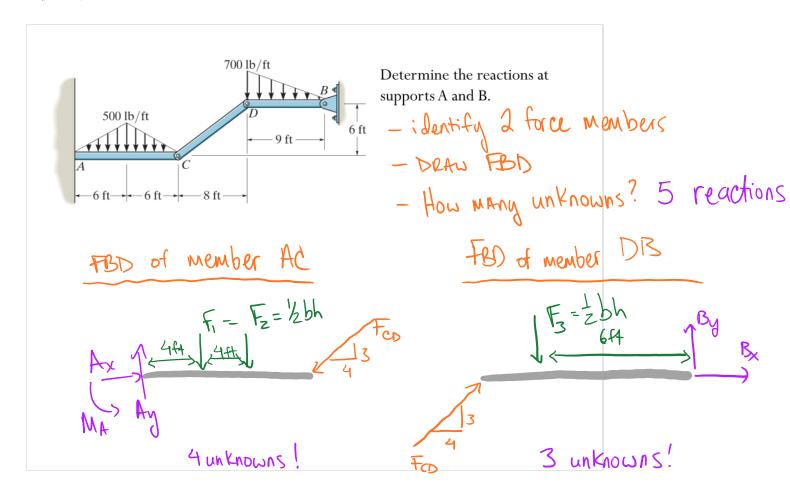
## To do ...

- CBTF Quiz 4 next week (Tues-Fri)
- WA 2 due **TODAY** 
  - Read instructions!!
- HW 14 PL due **WED**
- HW 15 ME due **Thurs**



Solve for member DB first, then for member AB.

$$F_{3}(6) - \frac{3}{5}F_{co} = 0$$

$$F_{co} = \frac{5}{3}(6)(F_{3}) = 3.5 \text{ Kip}$$

$$2F_{x=0}$$

$$B_{x} + \frac{4}{5}F_{co} = 0$$

$$B_{x-} - \frac{4}{5}F_{co} = -2.8 \text{ Kip}$$

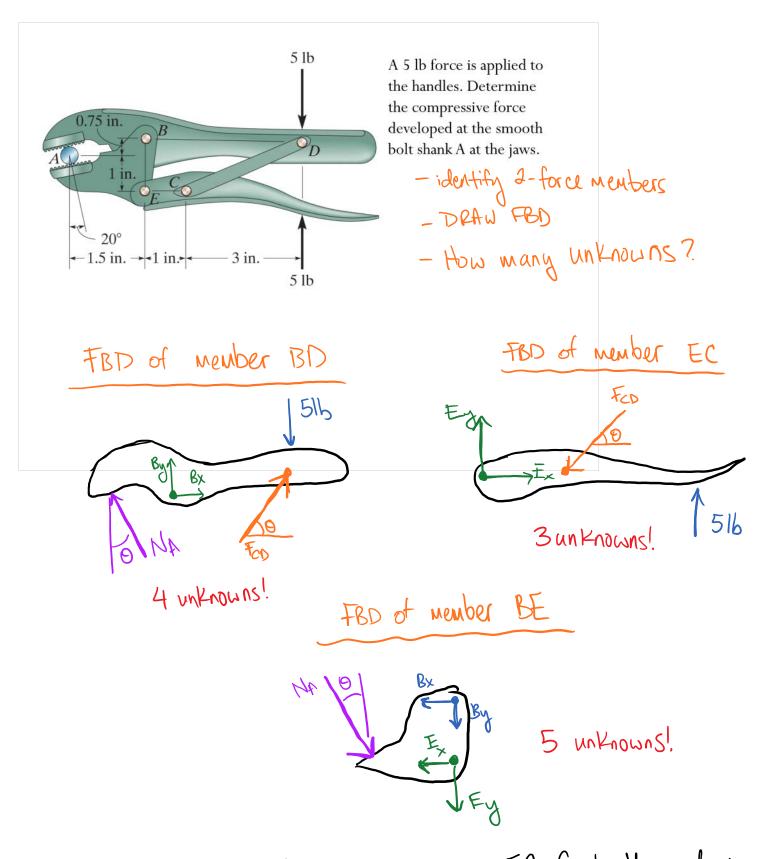
now solve for member AB:

$$\frac{2f_{x}=0}{A_{x}-\frac{4}{5}f_{co}} = 0$$

$$\frac{A_{y}=\frac{4}{5}f_{co}}{A_{y}-F_{1}-F_{2}-\frac{3}{5}f_{co}} = 0$$

$$\frac{A_{y}=F_{1}+F_{2}+\frac{3}{5}f_{co}}{A_{y}=F_{1}+F_{2}+\frac{3}{5}f_{co}} = 5.1 \text{ Kip}$$

$$2M_{A}=0$$
 $M_{A}-F_{1}(4)-F_{2}(8)-F_{co}(\frac{3}{5})(12)=0$ 
 $M_{A}=\frac{43.2}{43.2}$ 



Solve for forces on newber EC first, then decide

to use member BE or BD

## for member EC:

$$5(4) - F_{co} sin\theta (1) = 0$$
  
 $F_{co} = 39.693 \text{ lb}$ 

$$E_{x} - F_{co} \cos \theta = 0$$
  
 $E_{x} = 34.286 \text{ lb}$ 

## now use member BE:

 $- E_{x}(1.75) + N_{4} \sin(20)(0.75) + N_{4} \cos(20)(1.5) = 0$ 

20(0.75) + N (25(72)/15)