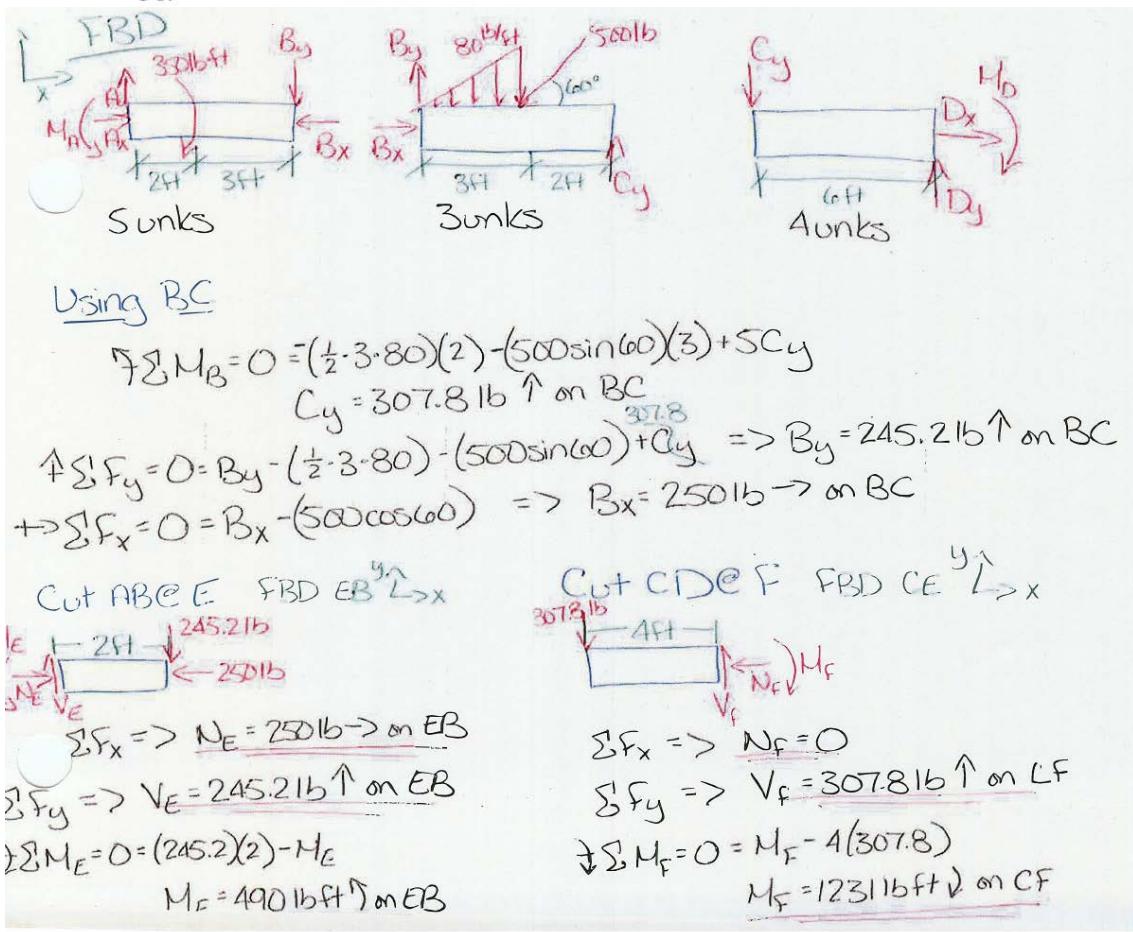
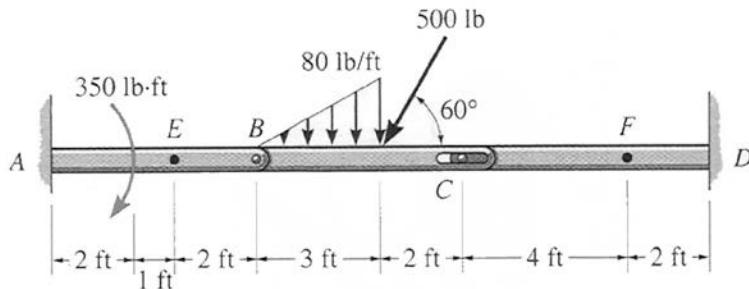


**Problem 1:** Determine the internal forces at points *E* and *F*. Member *BC* is pinned at *B* and there is a smooth slot at *C*. The pin at *C* is fixed to member *CD*.



**ANSWER:**  $C_y = 308 \text{ lb } \uparrow$ ,  $B_y = 245 \text{ lb } \uparrow$ ,  $B_x = 250 \text{ lb } \rightarrow$  all on BC  
 $N_E = 250 \text{ lb } \rightarrow \text{on EB}$ ,  $V_E = 245 \text{ lb } \uparrow \text{ on EB}$ ,  $M_E = 490 \text{ lb*ft CCW on EB}$   
 $N_F = 0$ ,  $V_F = 308 \uparrow \text{ on CF}$ ,  $M_F = 1231 \text{ lb*ft CW on CF}$