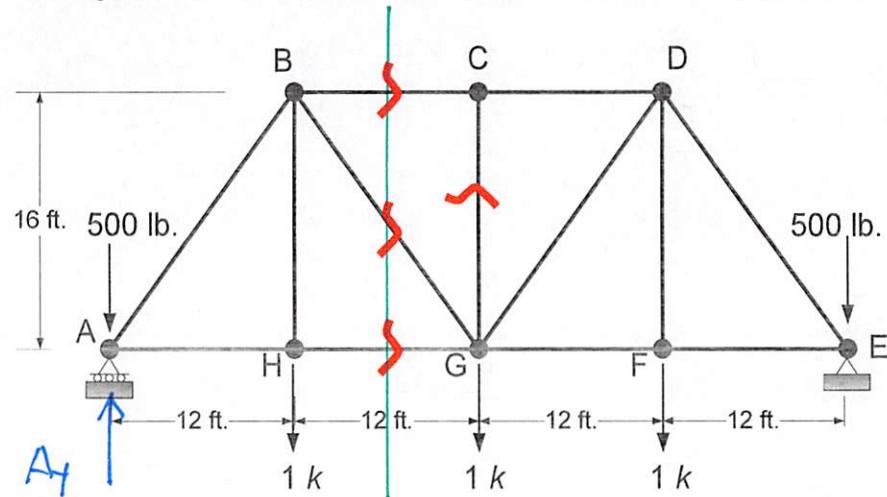


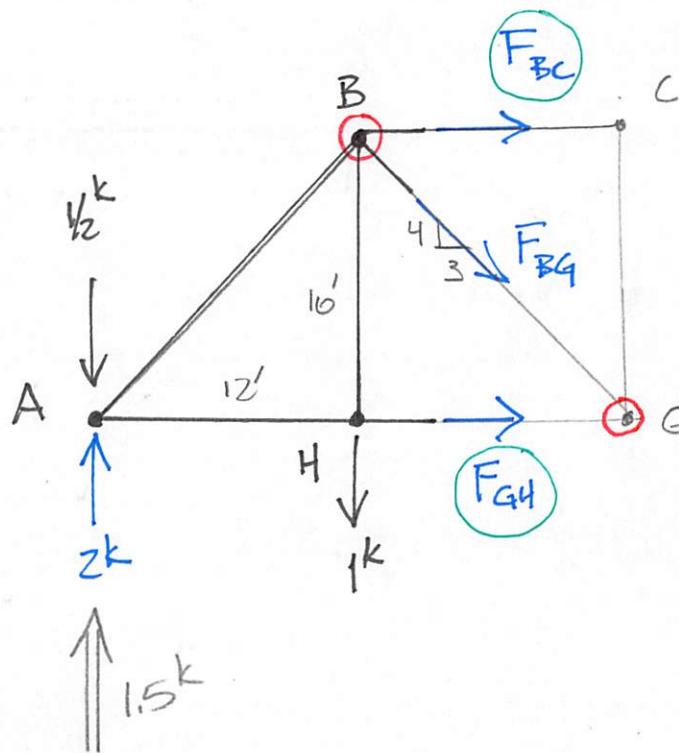
**Example 3c-1:** Determine the forces BC, BG, HG, and CG in the following truss.



ZERO FORCE MEMBER - CASE 2  $F_{CG} = 0$

$$\textcircled{+} \sum M_B = 0 = F_{GH}(16') - Z^k(12') + 1/2 Z^k(12')$$

$$\underline{\underline{F_{G4} = 1,125 \text{ k}}}$$



$$\textcircled{d} \sum M_g = 0 = -F_{Bc}(1b') + 1^k(12') - 1.5(24')$$

$$F_{BC} = -1.5 \text{ k}$$

$$+\uparrow \sum F_y = 0 = -\frac{4}{5}F_{BG} - 1^k + 1.5^k$$

$$\underline{F_{BG} = 0.625^k}$$