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•6-1. Determine the force in each member of the truss, and state if the members are in tension or compression.



Method of Joints: We will begin by analyzing the equilibrium of joint D, and then proceed to analyze joints C and D.

Joint  $\Omega$  From geometry,  $\theta = \tan^{-1}\left(\frac{1}{2}\right) = 26.57^\circ$ . Thus, from the free - body diagram in Fig. a,

$$f_{DC} = 0.$$
 600  $-F_{DC} = 0.26.57^{\circ} = 0$   
 $F_{DC} = 1341.64 \text{ N} = 1.343.87 \text{ CC}$   
 $= 7.2F_{p} = 0.$  1341.64 cos 26.57°  $-F_{DC} = 0$   
 $F_{DC} = 1200 \text{ N} = 1.204.87 \text{ CD}$  Ass.

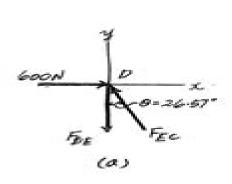
Joint C: From the free - body diagram in Fig. 8.

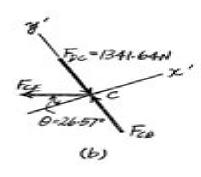
$$+\sqrt{2F_{ij}^{\prime}} = 0$$
,  $-F_{ijj}^{\prime} = 0$   
 $F_{ijj}^{\prime} = 0$   
 $-\sqrt{2F_{ij}^{\prime}} = 0$ ,  $F_{ijj}^{\prime} = 1341.64$  N = 1.341.N (C) And

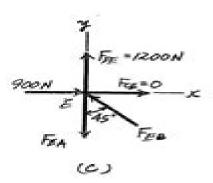
Joint Et From the free - body diagram in Fig. c.

$$f_{ij} = 0$$
,  $900 - f_{ijk} \sin 497 = 0$   
 $f_{ijk} = 1272.7904 = 1.27 kN (C)$  Ann.  
 $+ T 2F_{ij} = 0$ ;  $1292.790 \cos 497 - F_{ijk} = 0$   
 $F_{ijk} = 2300001 = 2.100001(T)$  Ann.

Note: The equilibrium analysis of joint A can be used to determine the components of support reaction at A.







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**Lewis Jerome Johnson** 

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