

$$A_x = +2 \text{ kips (answer)}$$

$$C_y: \sum M_A = 0 \text{ (kip}\cdot\text{ft)}$$

$$0 = -(4)(5) + (2)(6) + C_y(12)$$

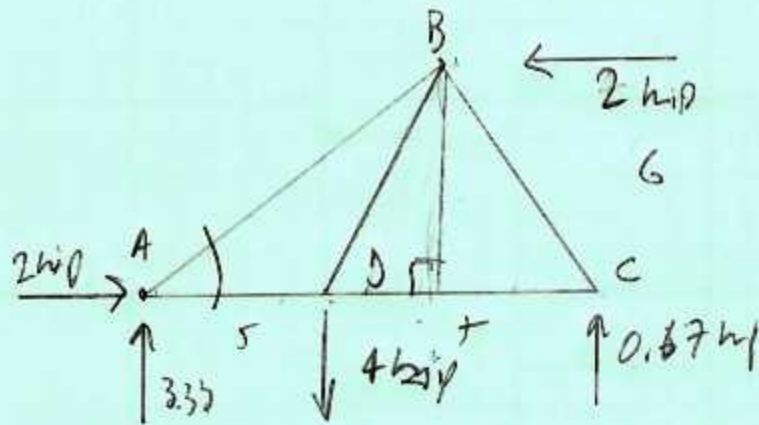
$$0 = -20 + 12 + 12C_y$$

$$C_y = \underline{\underline{0.67 \text{ kips}}}$$

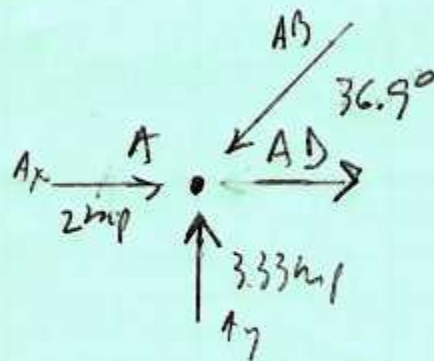
$$A_y: \sum M_C = 0$$

$$0 = -A_y(12) + (4)(7) + (2)(6)$$

$$A_y = \underline{\underline{3.33 \text{ kips}}}$$



A:



$$\Sigma f_x = 0 \quad (\text{kip})$$

$$0 = +2 - AD - AB(\cos 36.9)$$

$$\Sigma f_y = 0 \quad (\text{kip})$$

$$0 = +3.33 - AB(\sin 36.9)$$

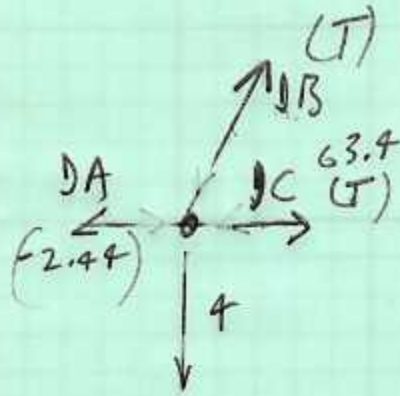
$$AB = 5.55 \text{ kips (C)}$$

~~AD = 2.44~~

$$\Sigma f_x: 0 = 2 - AD - (5.55)(\cos 36.9)$$

$$AD = \underline{\underline{-2.44}} \text{ kips (COMP) (T)}$$

9:



$$\sum F_y = 0$$

$$0 = -4 - DB(\sin 63.4)$$

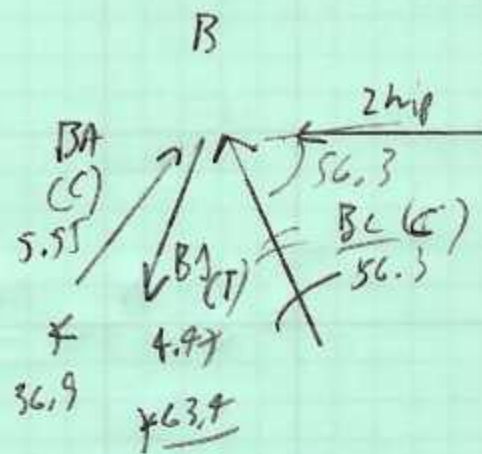
$$DB = \frac{-4.47}{\cos(63.4)} \quad (T)$$

$$\sum F_x = 0$$

$$0 = -2.44 - DC + (4.47)(\cos 63.4)$$

$$DC = \frac{-7.94}{\cos(63.4)} \quad (T)$$

$\Rightarrow 17.94$



$$\sum F_x = 0$$

$$0 = -2 + 5.55(\cos 36.9)$$

$$- 4.97(\cos 63.4) - BC(\cos 56.3)$$

$$BC = 0.79$$