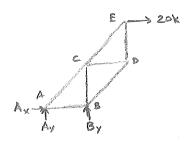
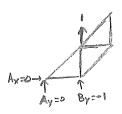
Real



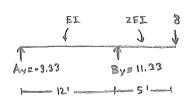


0)

	axiel force	Gyle!			
Member	N(k)	n (k)	r (t+)	A (11.2)	E (W1)
AB	eS 2	O	16	3	29000
Ac	56.57	٥	11/2	3	
85	-50	1	16	3	
BD	- 28.28	۵	1612	5	
CD	20	Ö	16	5	
CE	28.28	Ð	1652	5	J
DE	-20	۵	16	5	¥

$$(20 \text{ k}) \Delta_{\text{EX}} = \sum_{k=0}^{\infty} \frac{N^2 L}{EA} = 15.8 \text{ k·in} \Rightarrow \Delta_{\text{EX}} = 0.79 \text{ in,} \Rightarrow$$

Real



$$M = -3.33 \times$$

$$A \rightarrow B$$

$$C \rightarrow B$$

$$A_{V} = \frac{1}{12}$$

$$B_{V} = -\frac{1}{12}$$

$$M = -1 + \frac{1}{12} \times M$$

$$M = 0$$

$$(1 \text{ k.At}) \Theta_{A} = \begin{bmatrix} 12 & (-3.33 \text{ k.})(-1 + \frac{1}{12} \text{ k.}) \\ (-3.33 \text{ k.})(-1 + \frac{1}{12} \text{ k.}) \\ (-3.33 \text{ k.})(-1 + \frac{1}{12} \text{ k.}) \end{bmatrix} dx + \int_{B}^{5} \frac{(-3x/46)^{2}}{2(29000)(100)} dx \end{bmatrix} \times 12^{2} = 3.97 \times 10^{-3} \text{ k.Ct. red} \implies \Theta_{A} = 3.97 \times 10^{-2} \text{ rad } G$$

b) De Virtual (set as 8 to match real)



$$(8 \text{ k}) \Delta_{cy} = \int_{0}^{12} \frac{(-3.33 \times)^{2}}{(2900) (100)^{2}} dx + \int_{0}^{5} \frac{(-8 \times)^{2}}{(2900) (100)^{2}} dx \right] \times 12^{3} = 4,608 \text{ k·m.} \Rightarrow \Delta_{cy} = 0.576 \text{ in. } 1$$