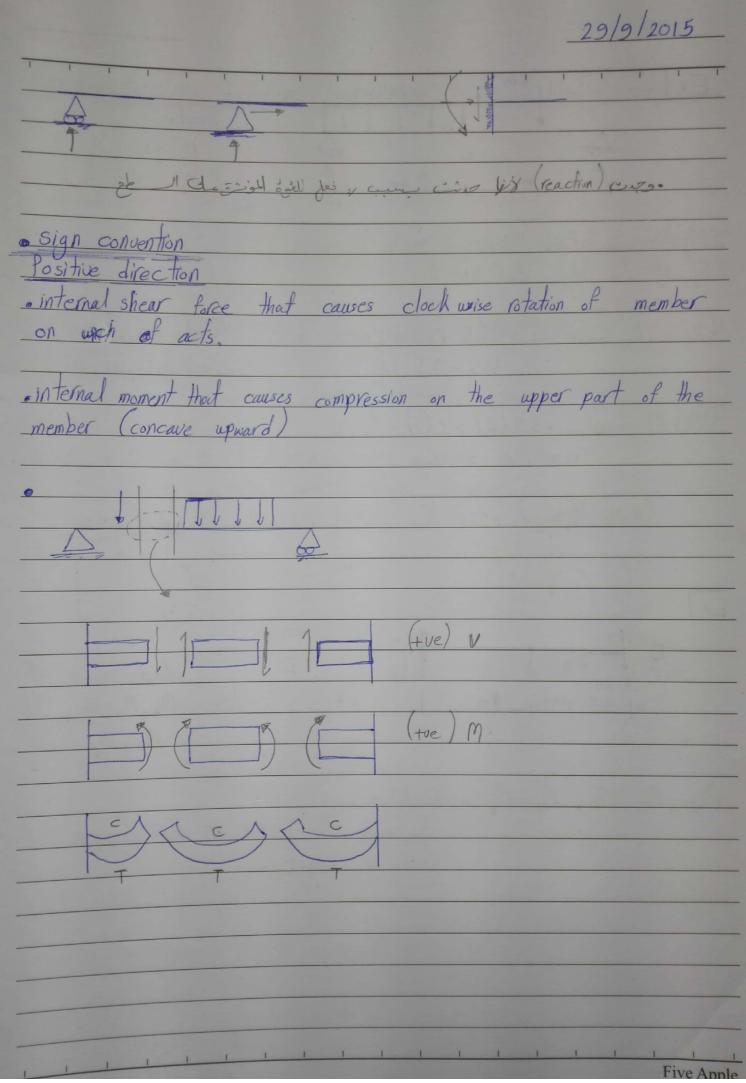
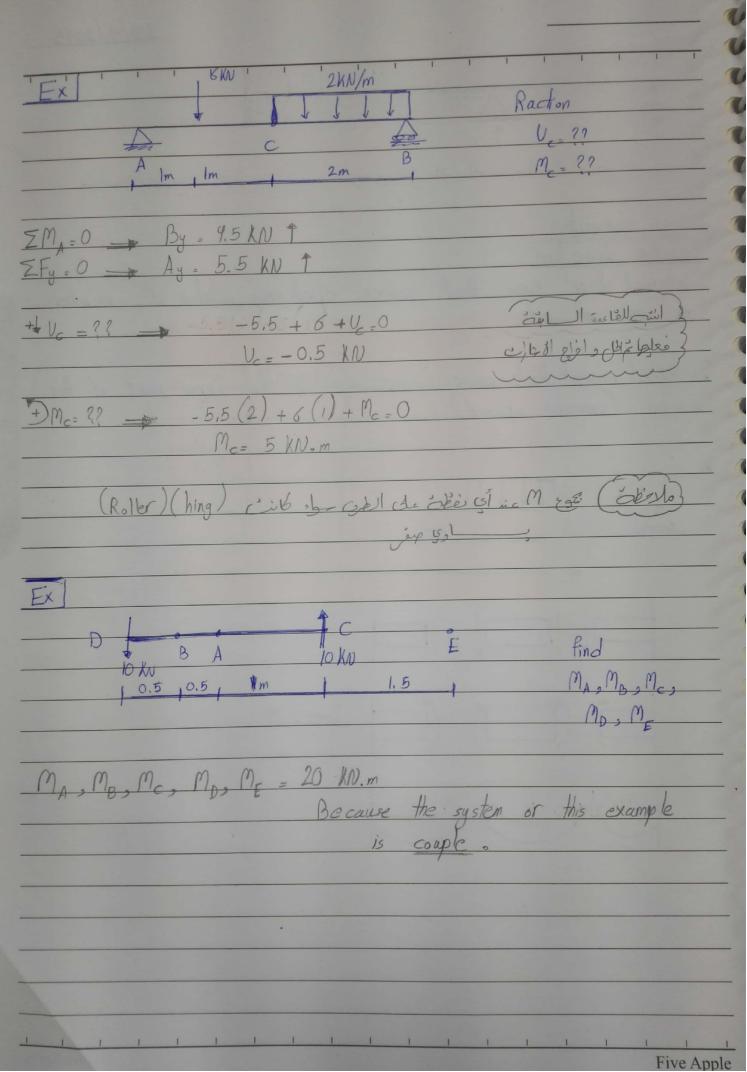
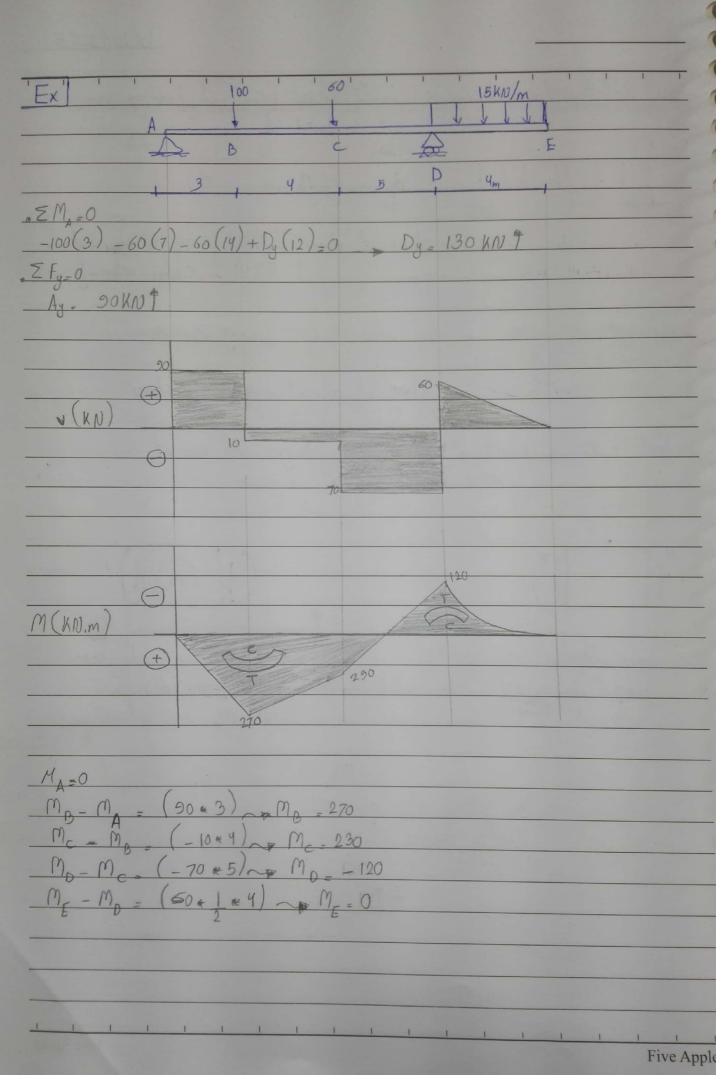
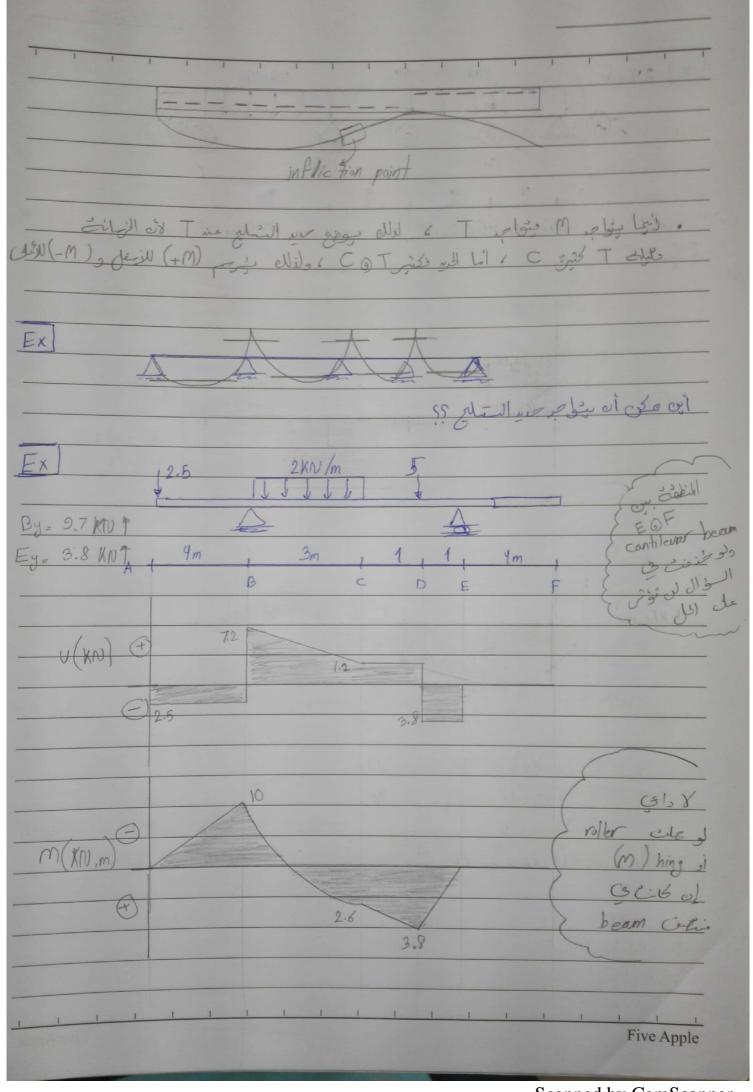


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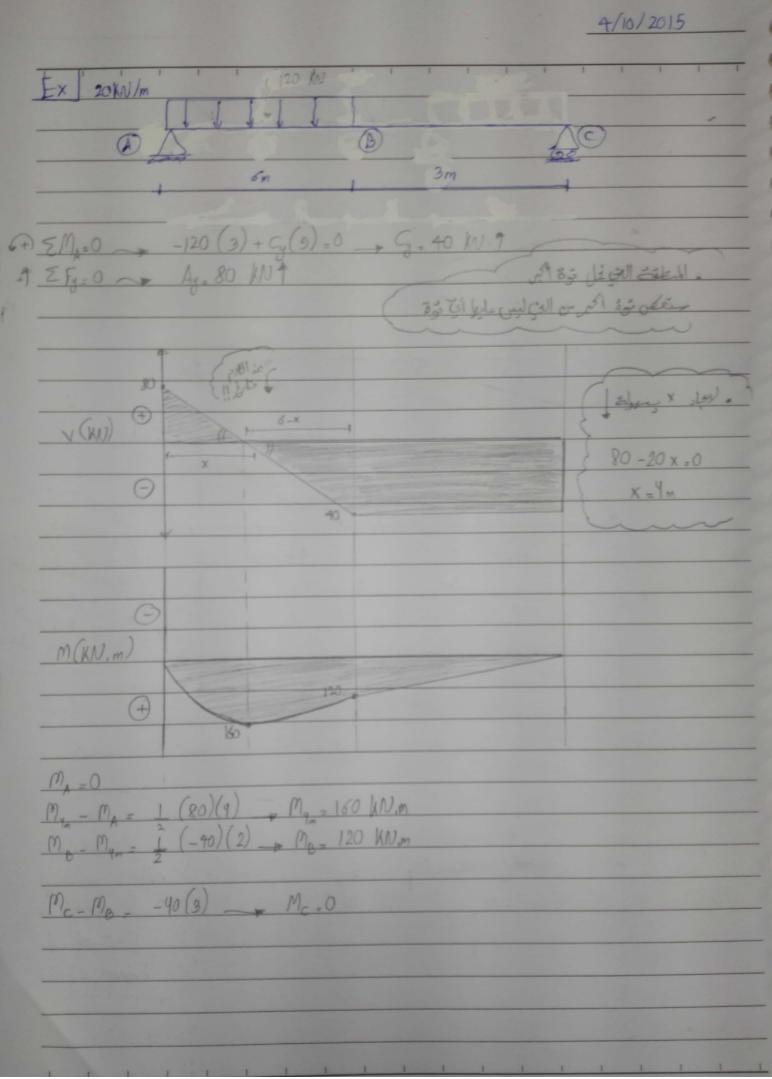


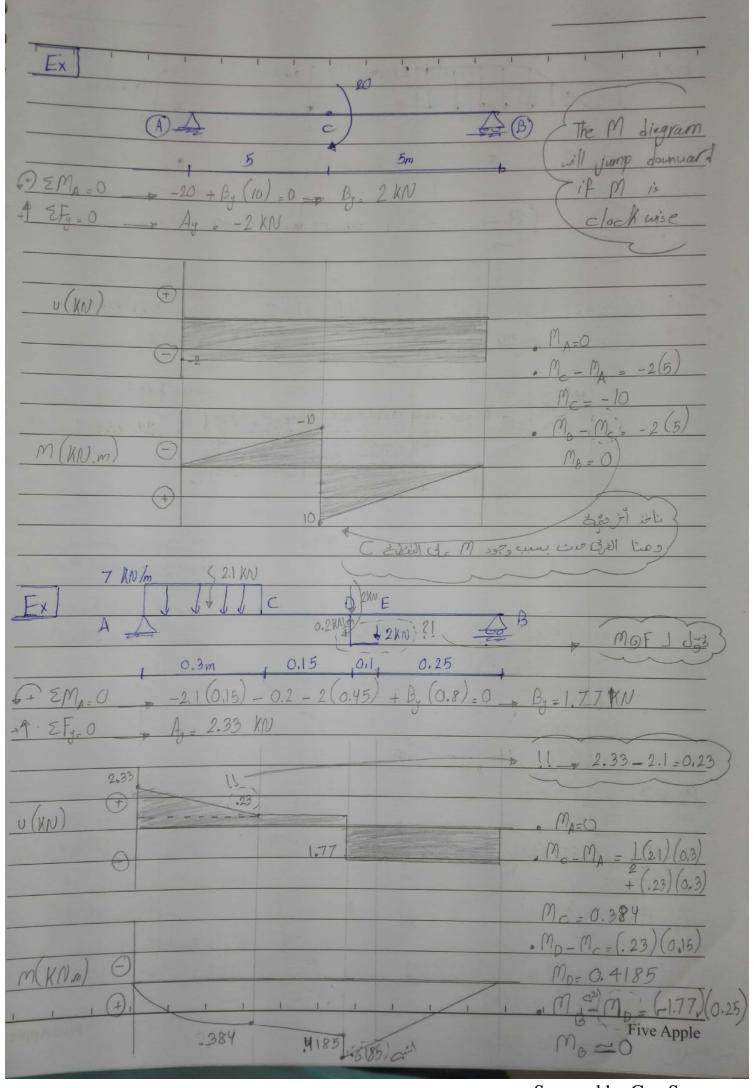




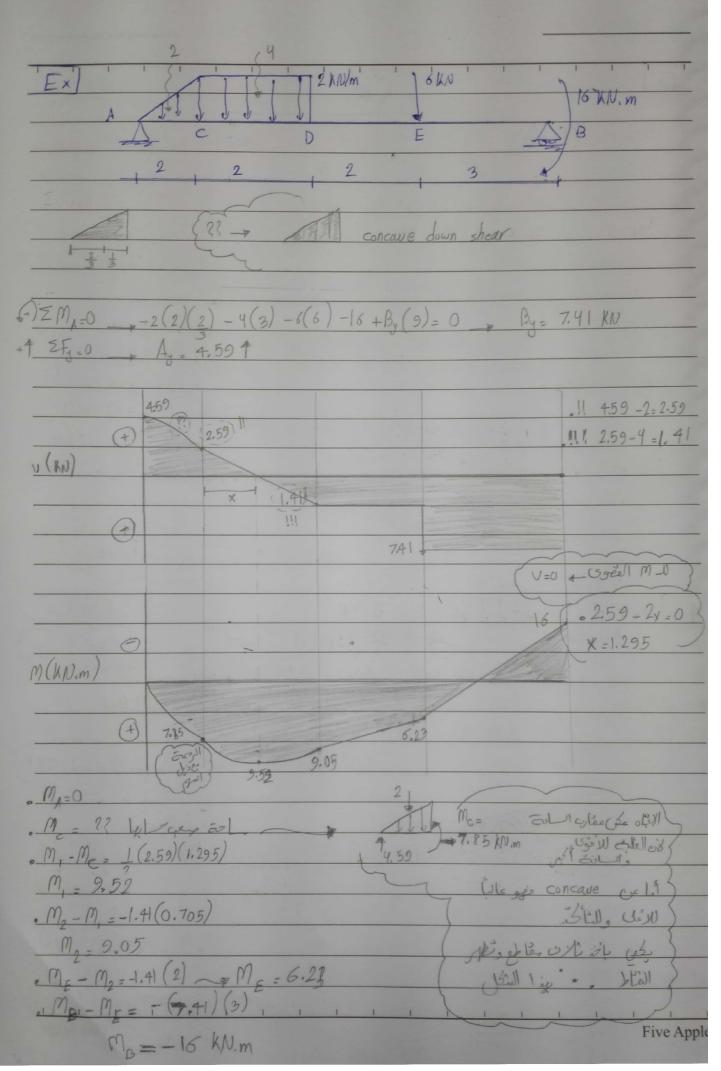


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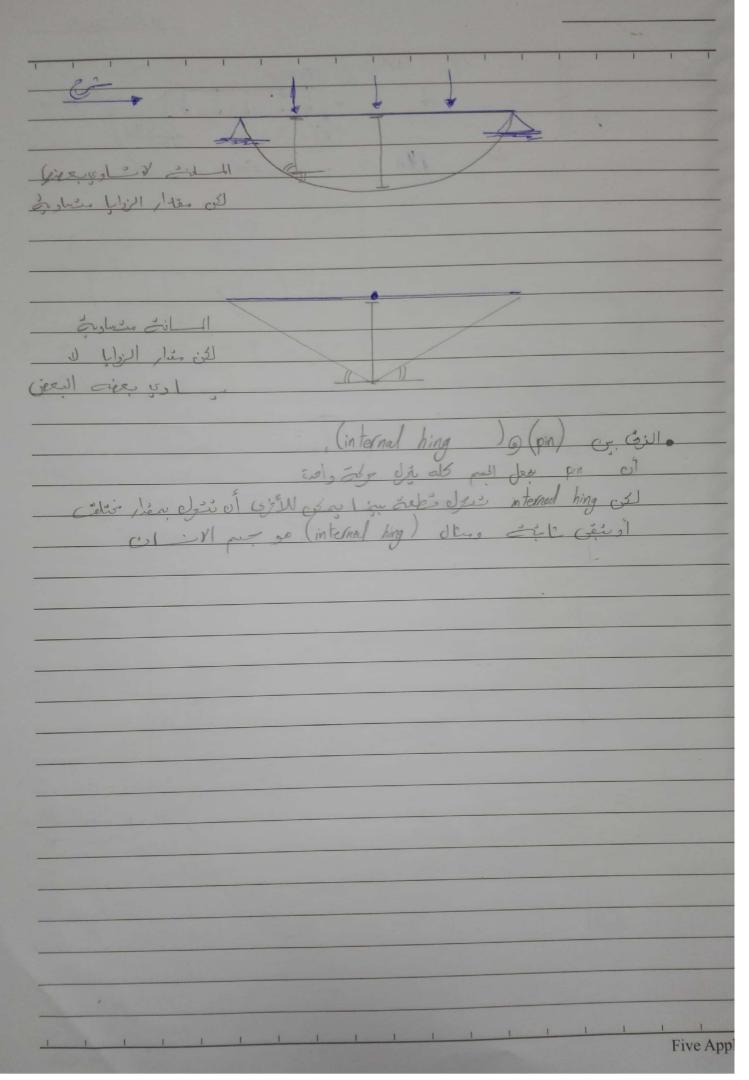


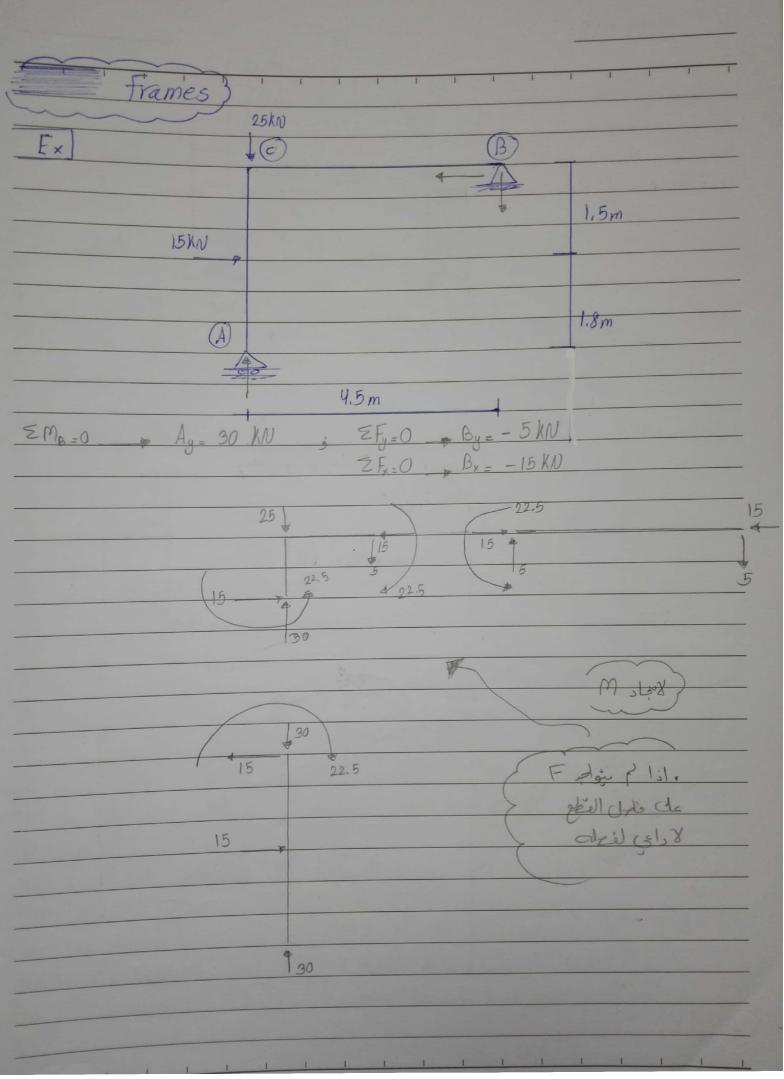
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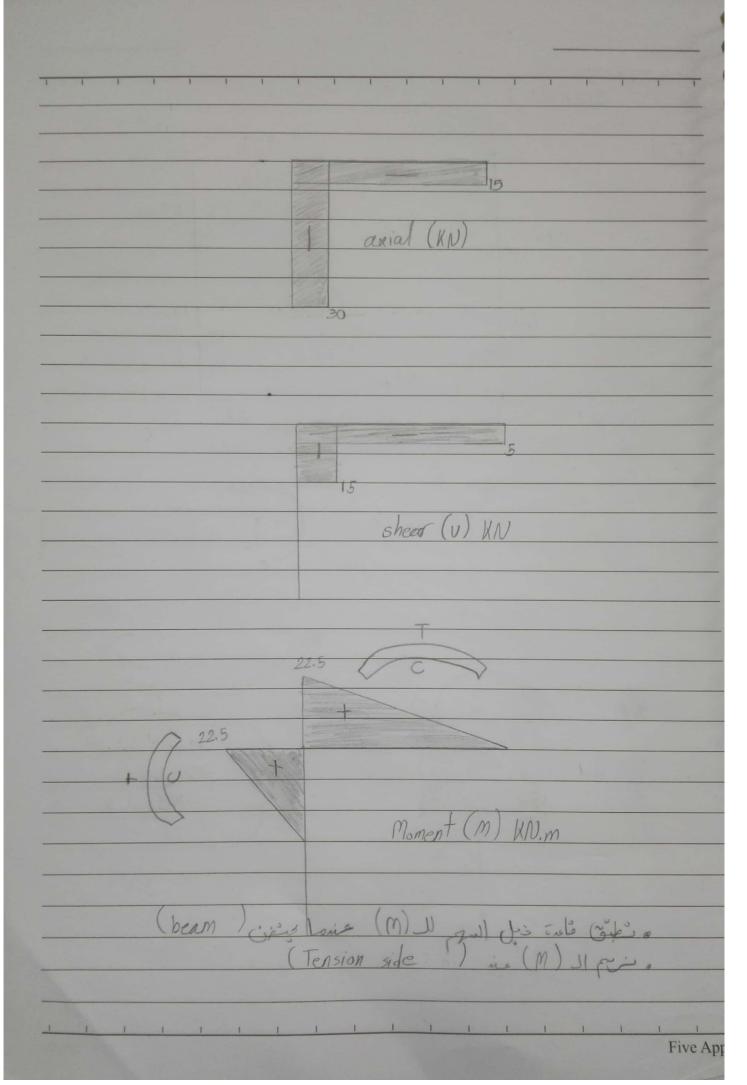
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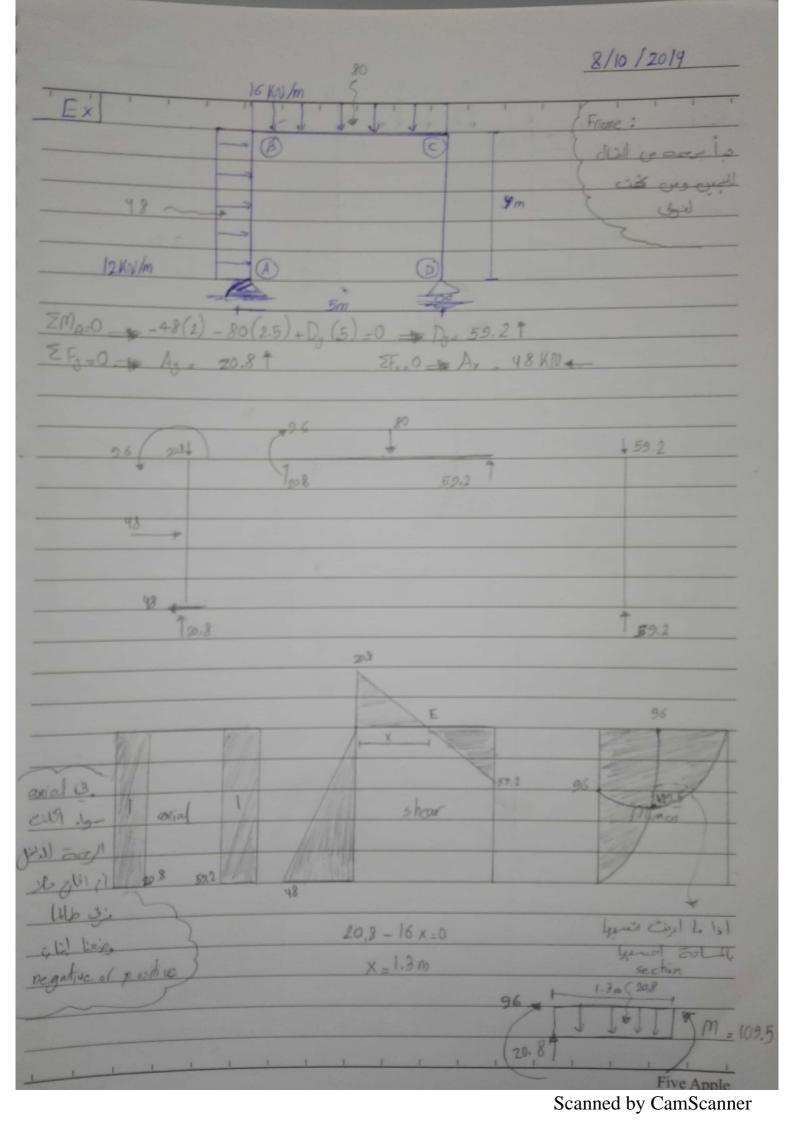
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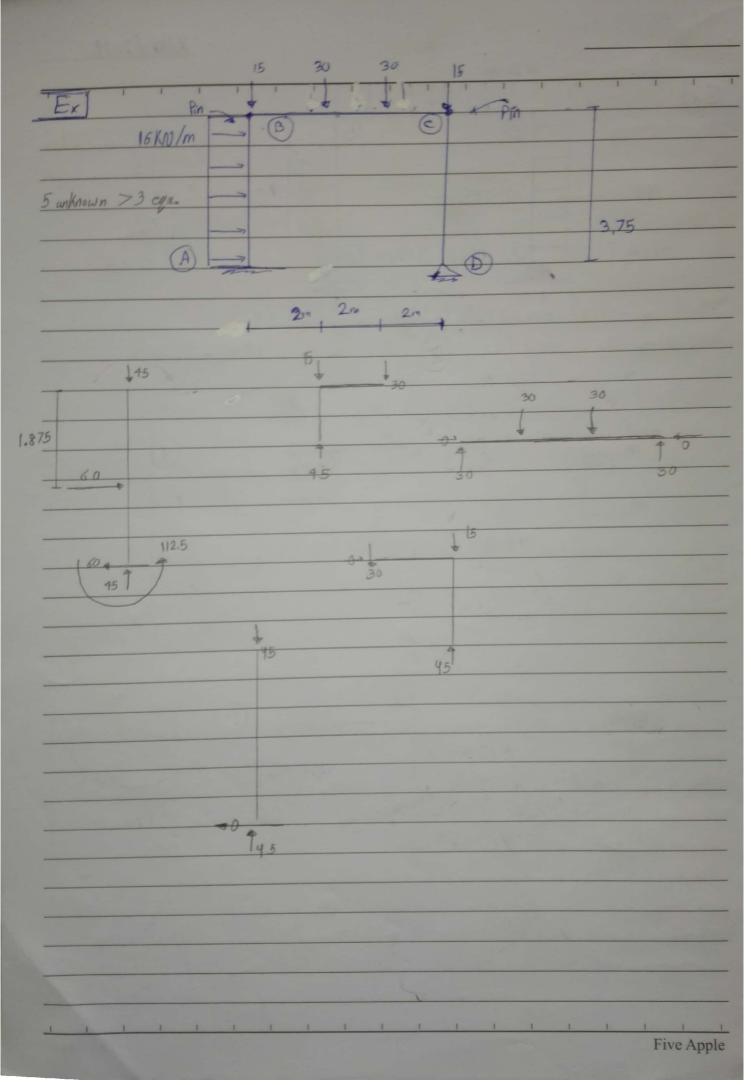


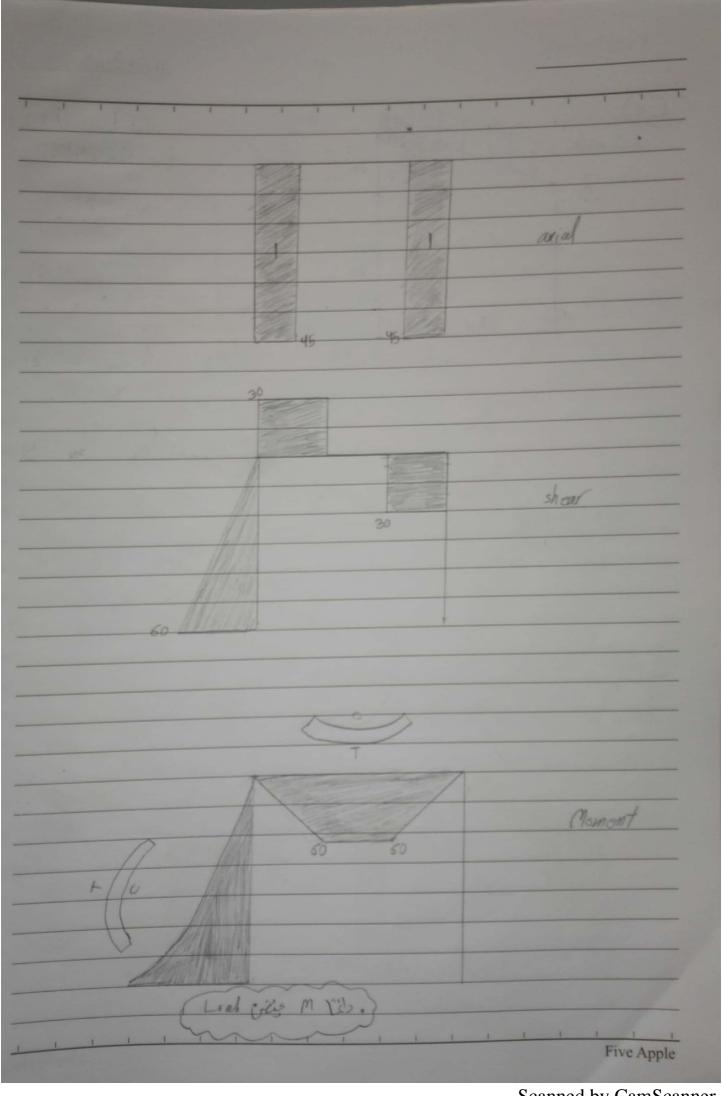


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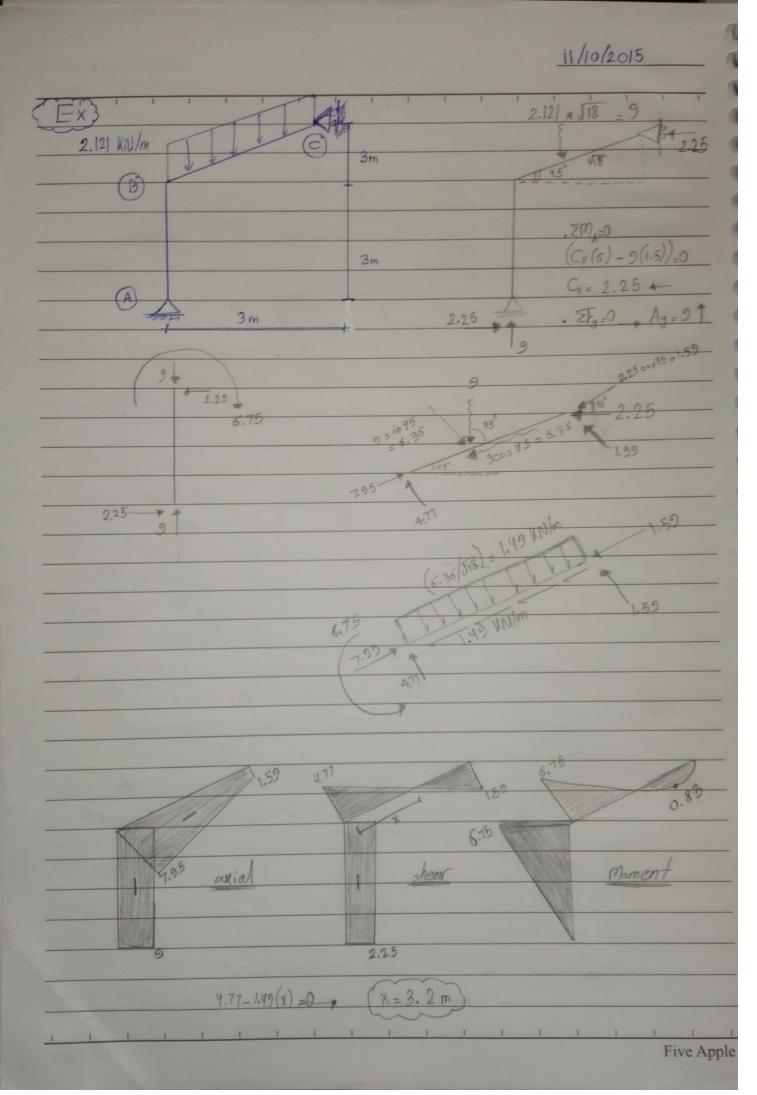




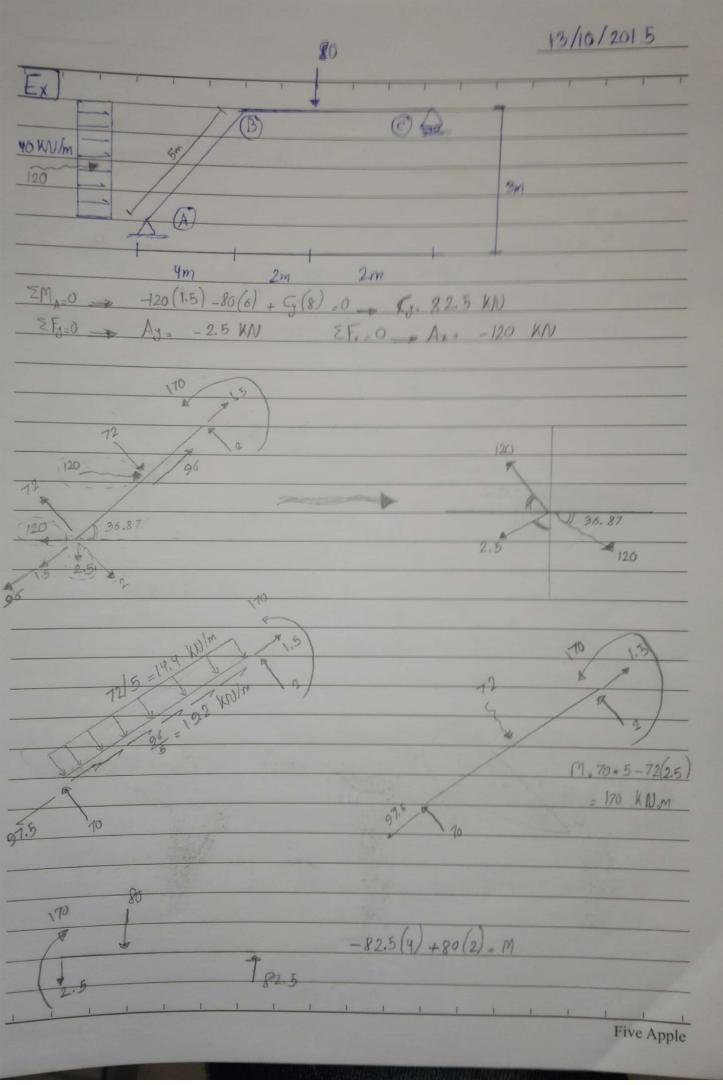




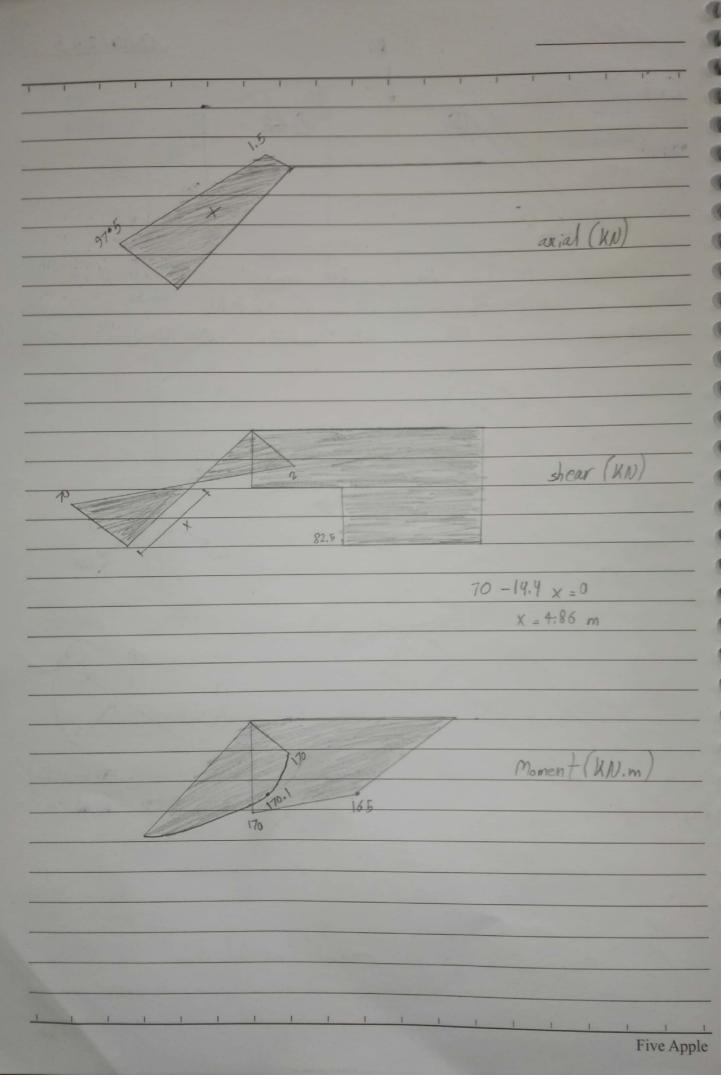
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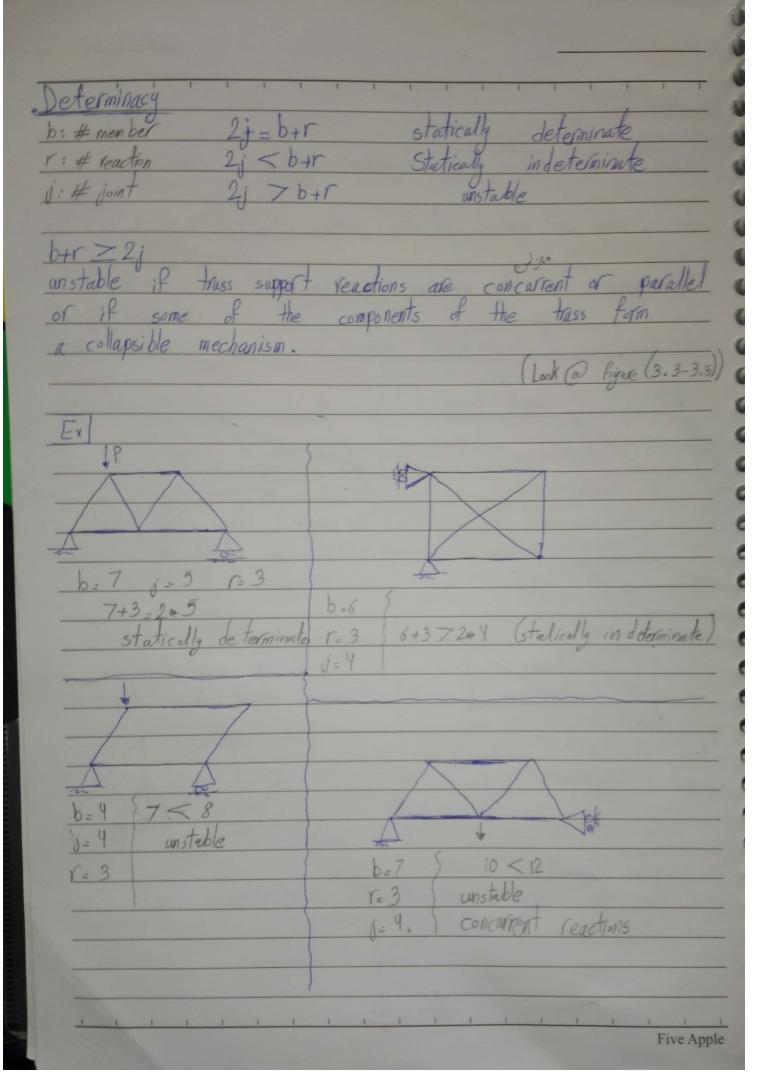
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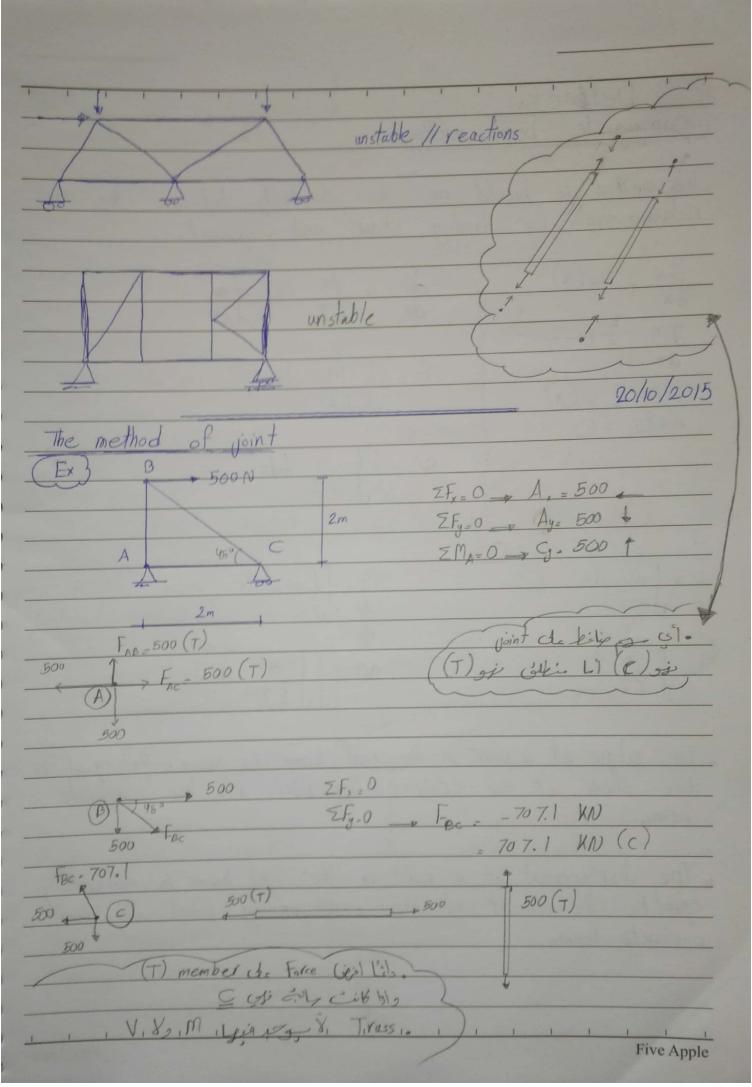


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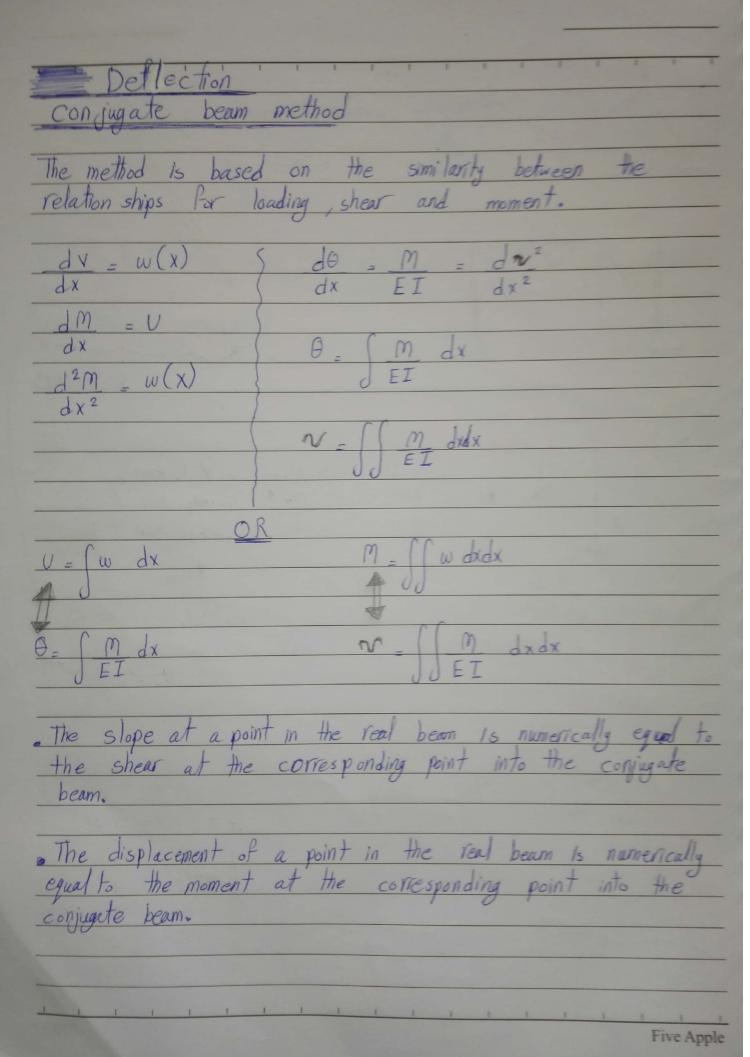


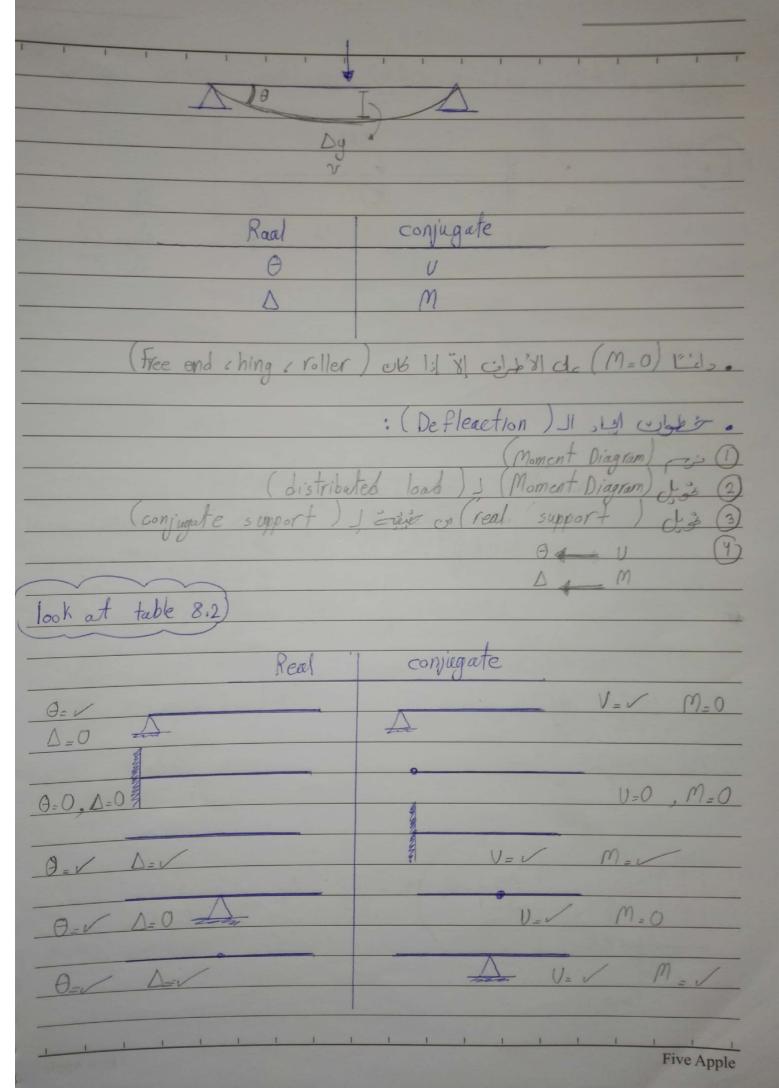
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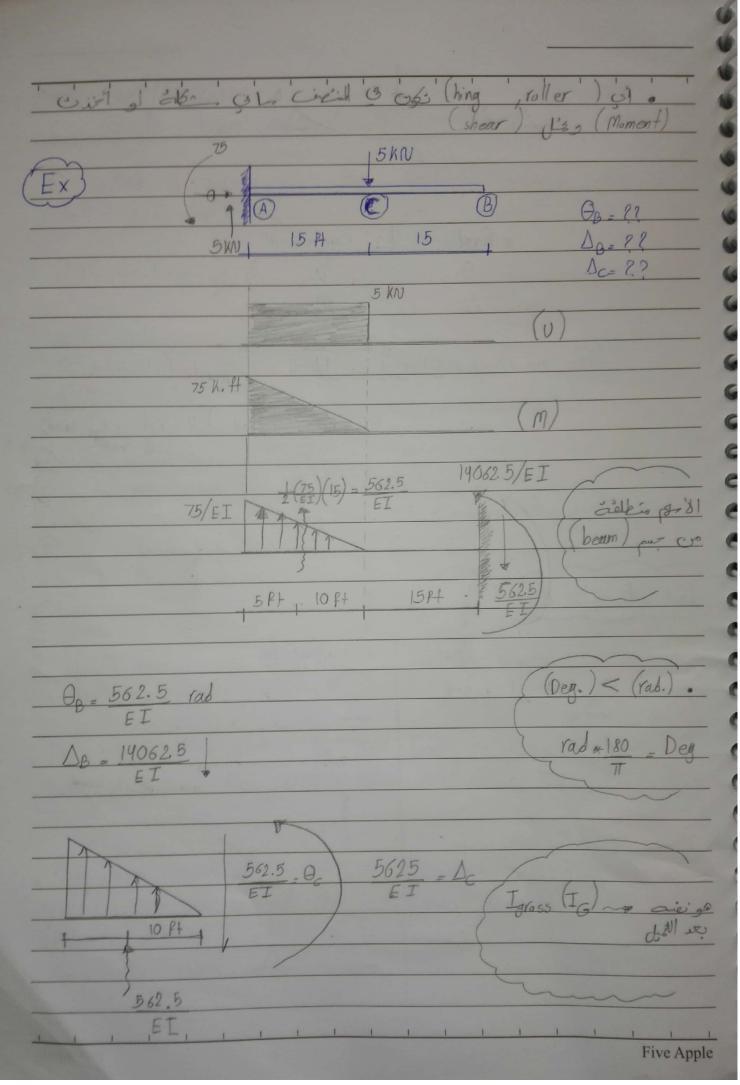


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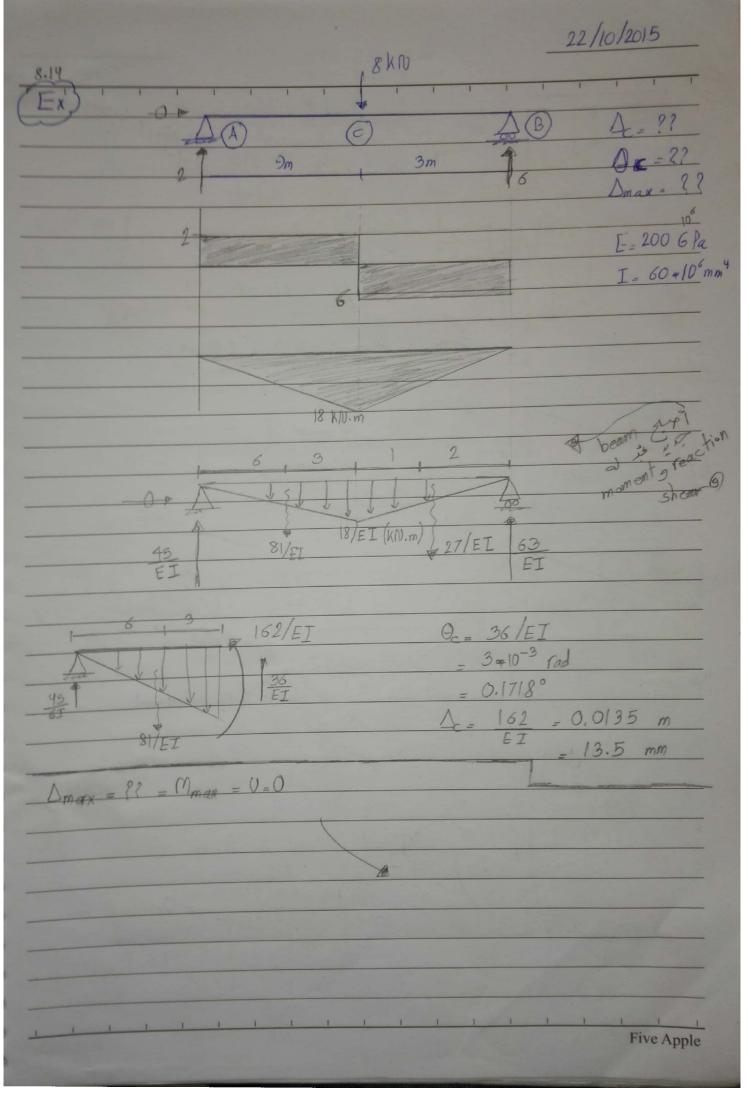




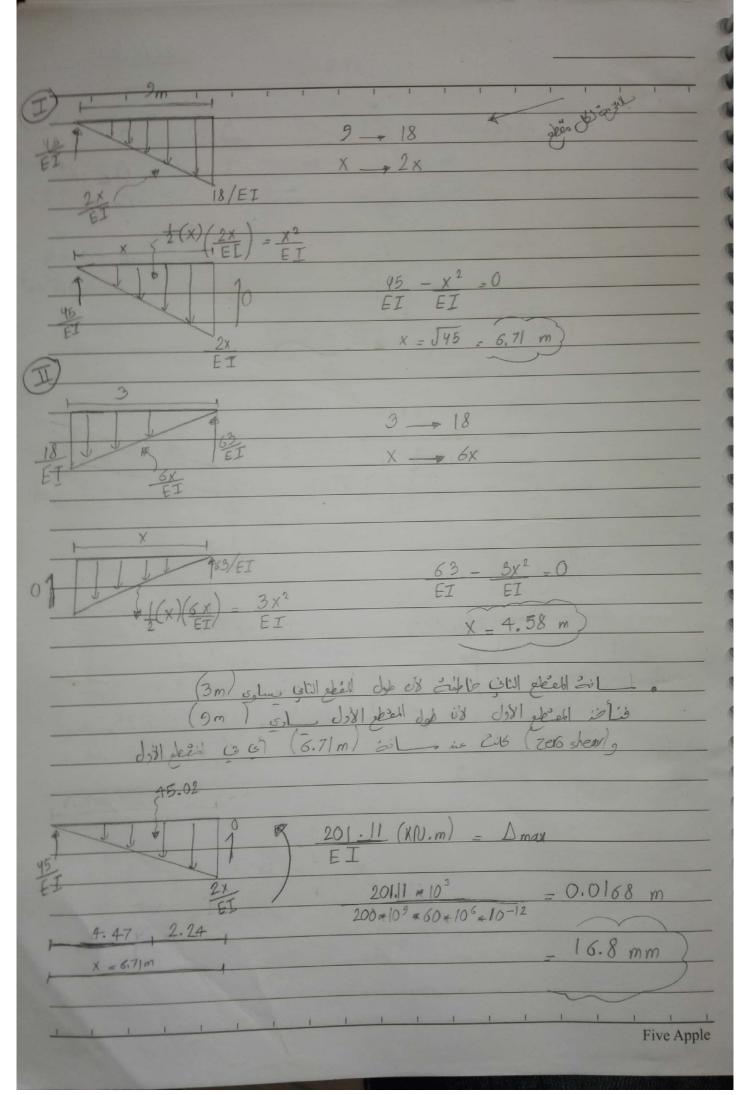
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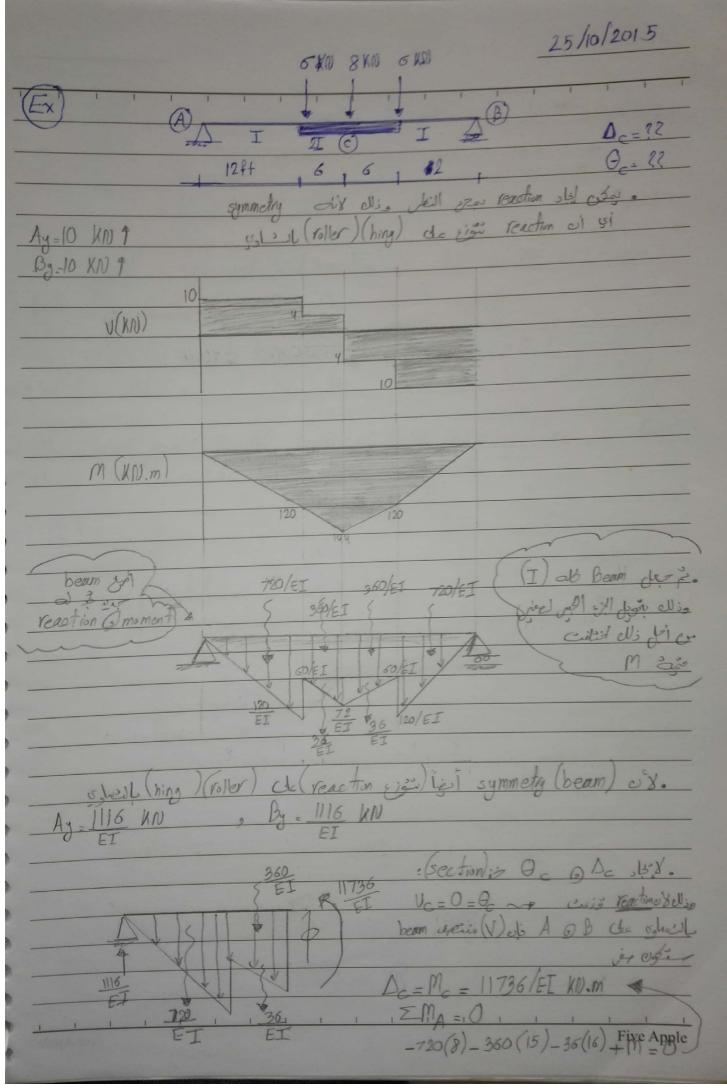
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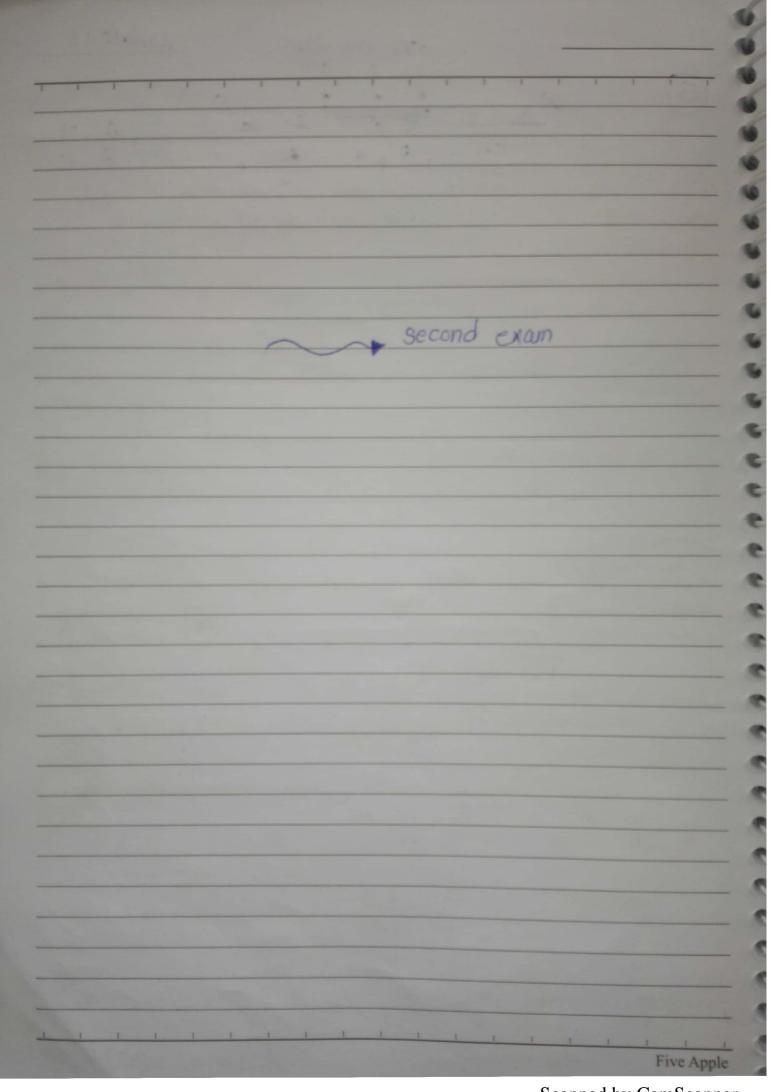
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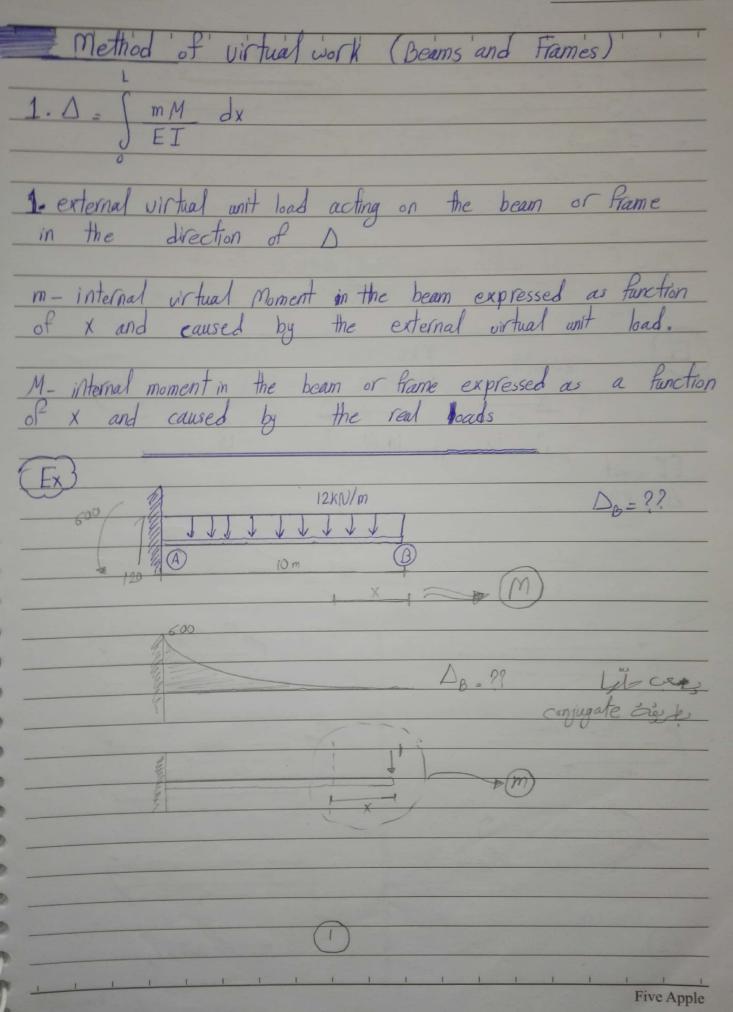


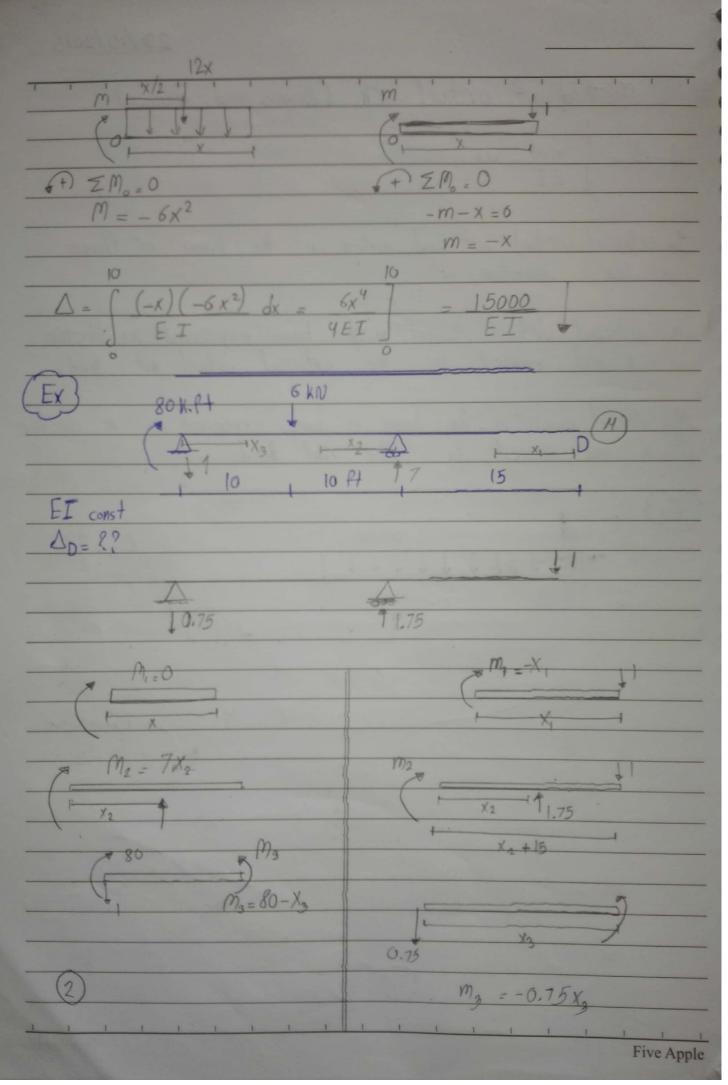
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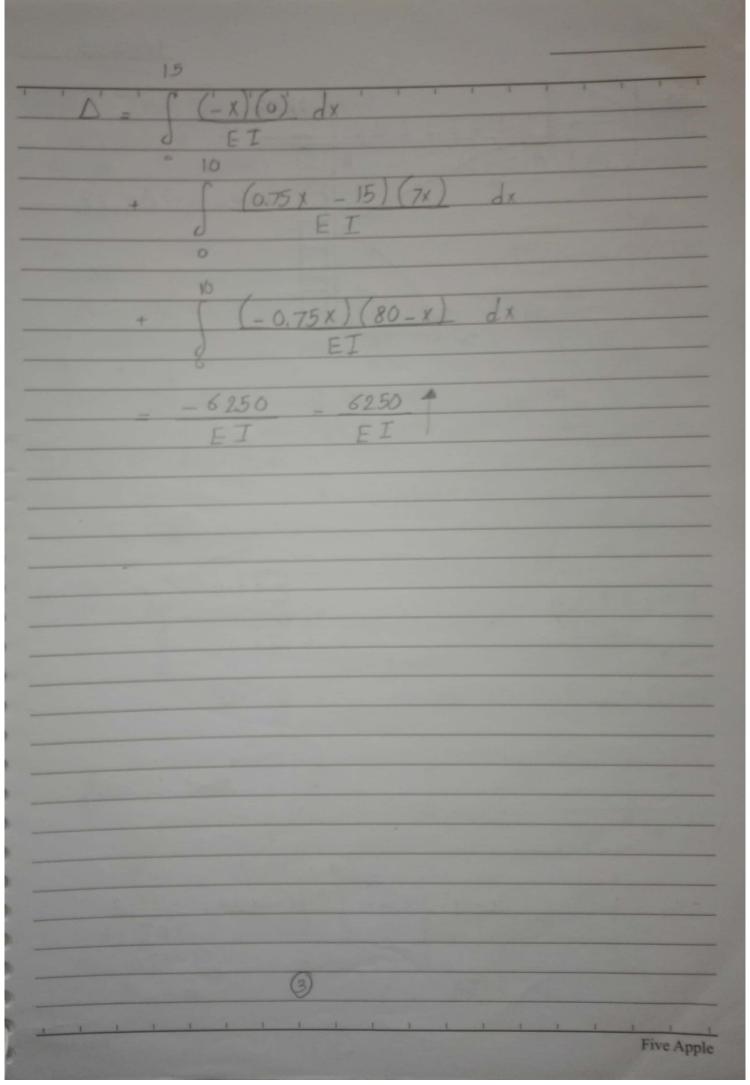
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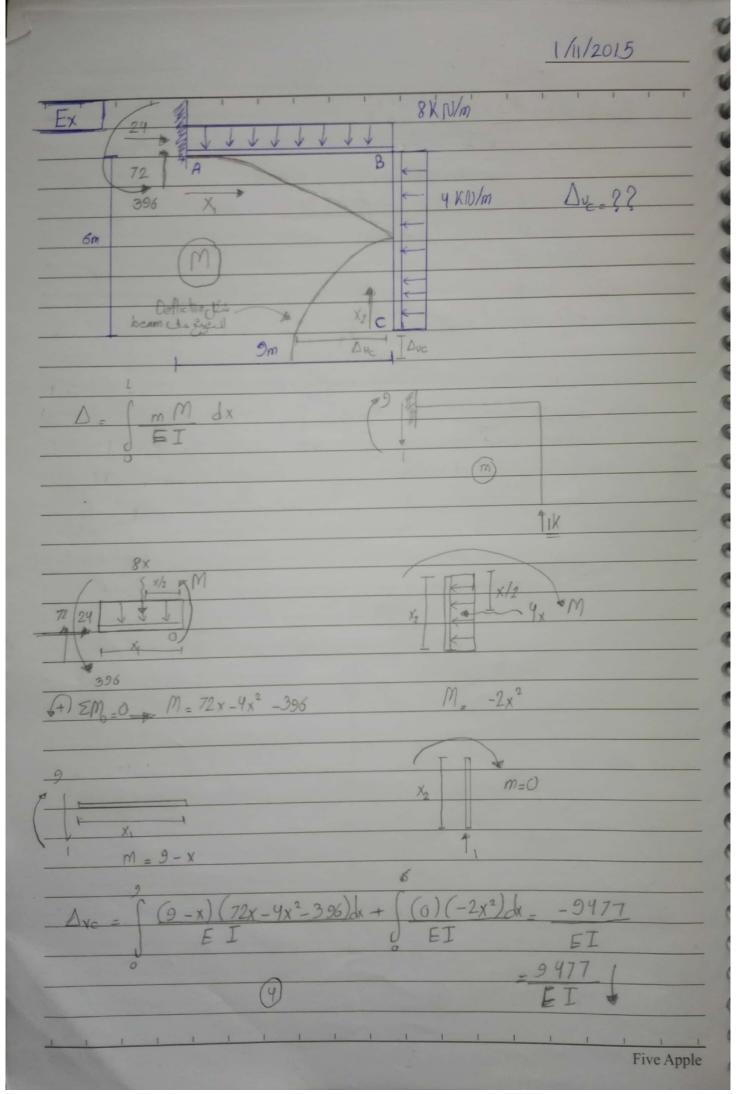




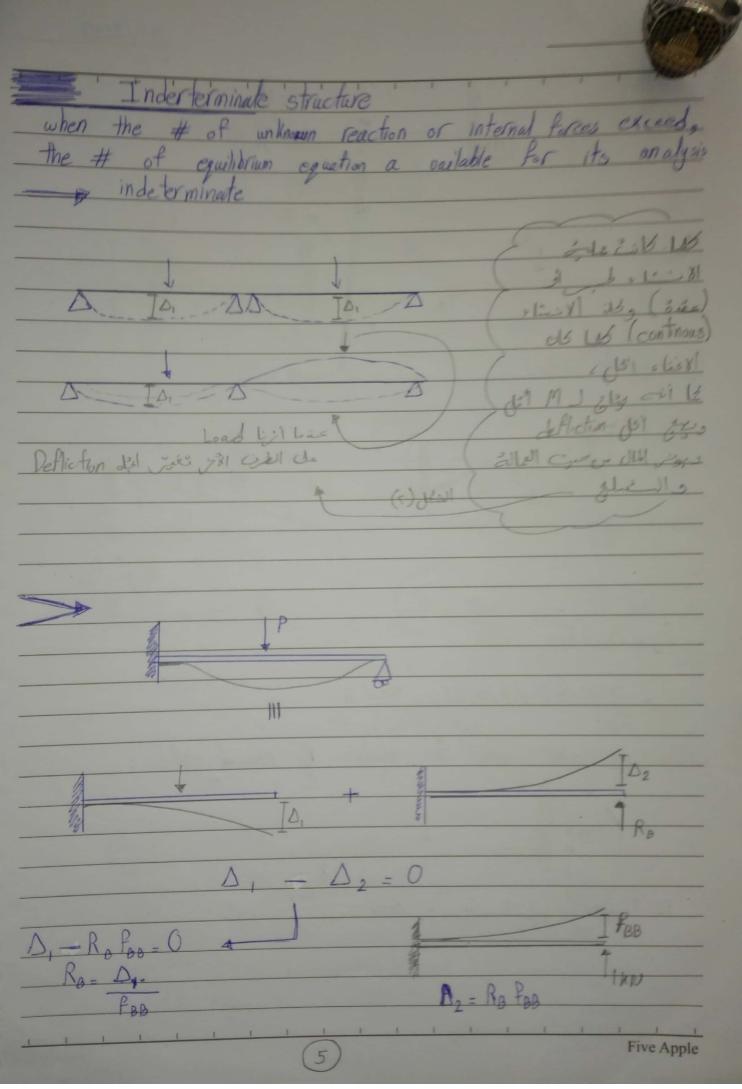


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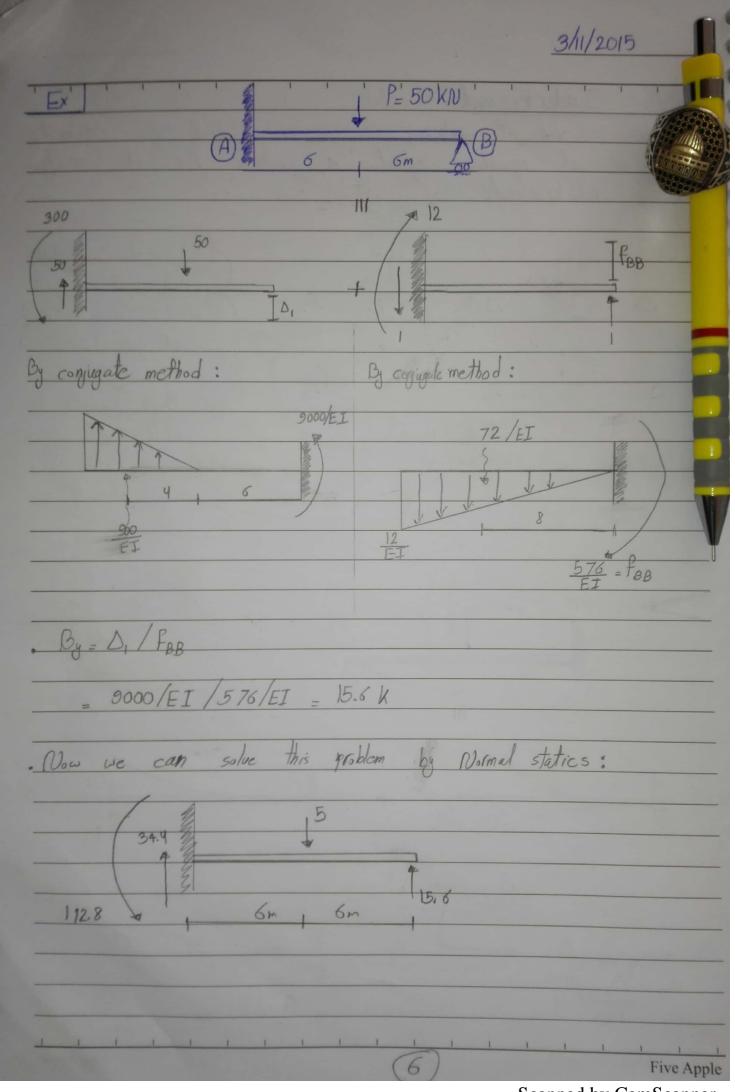




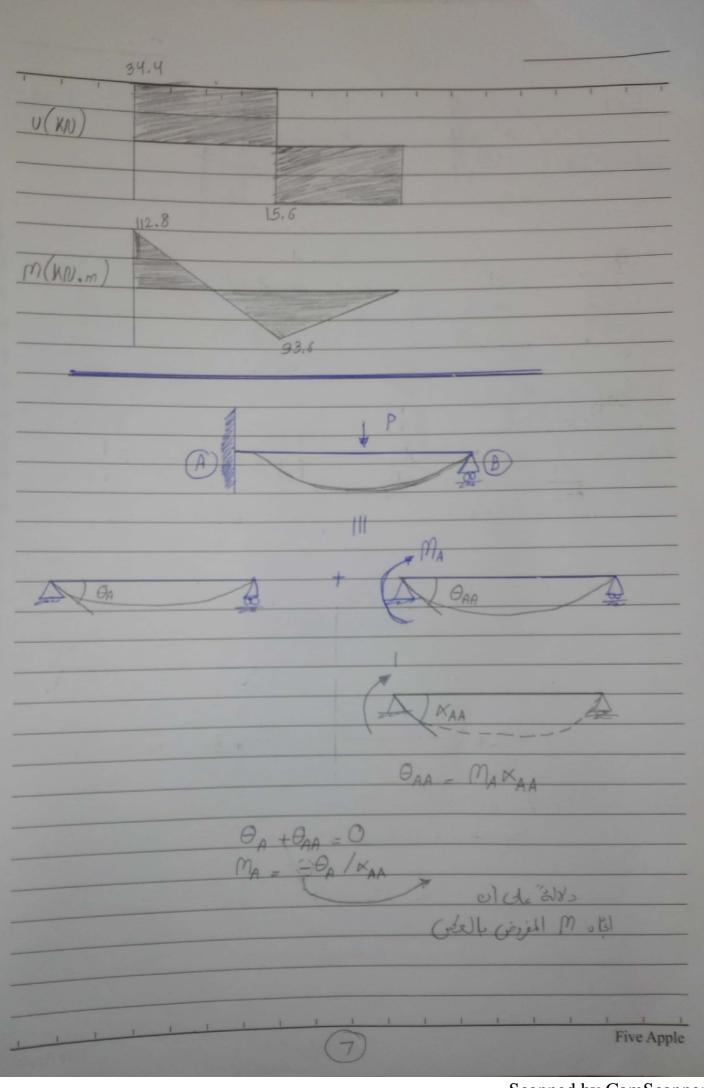
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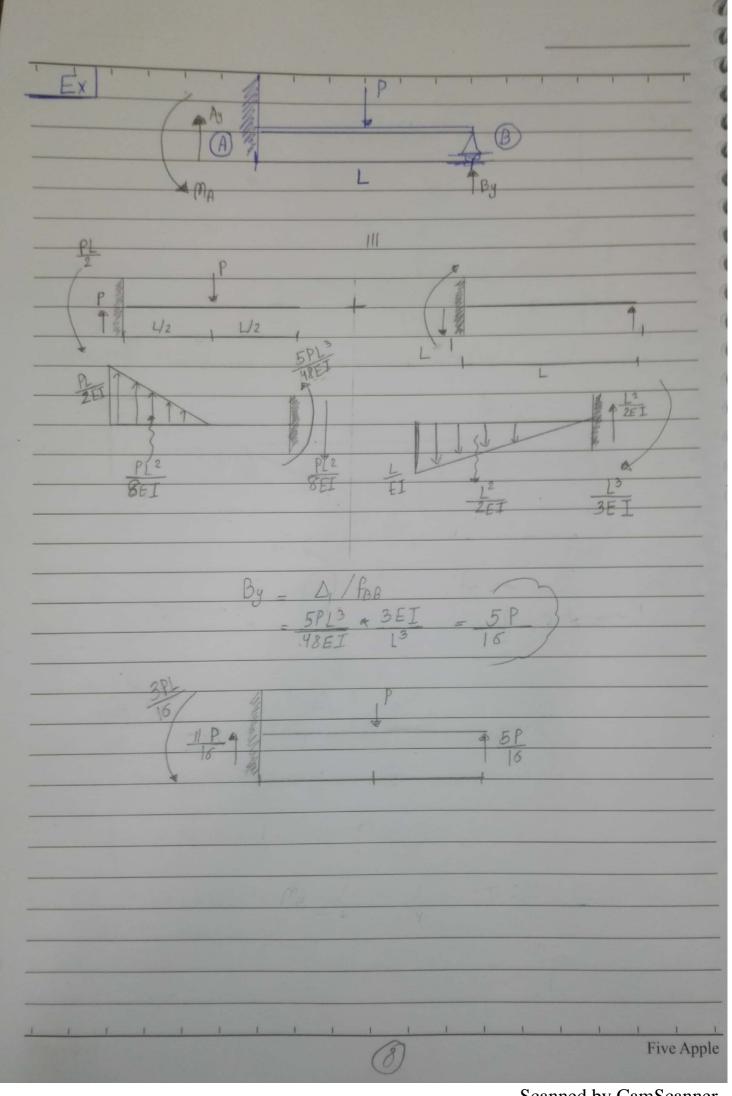
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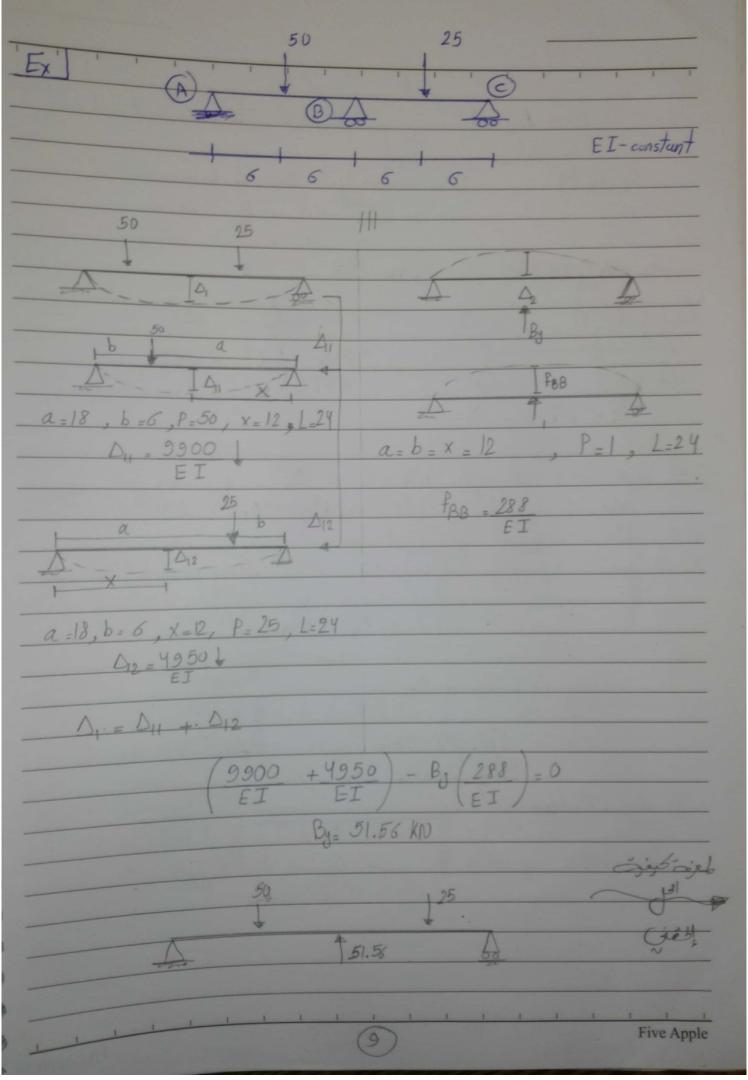


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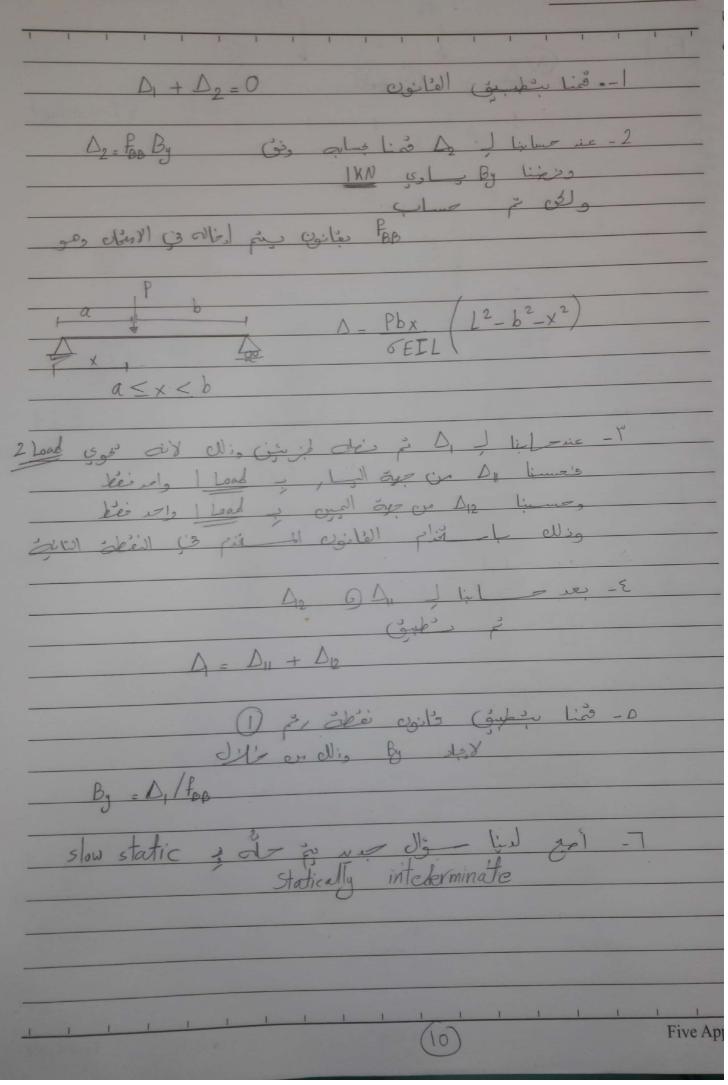


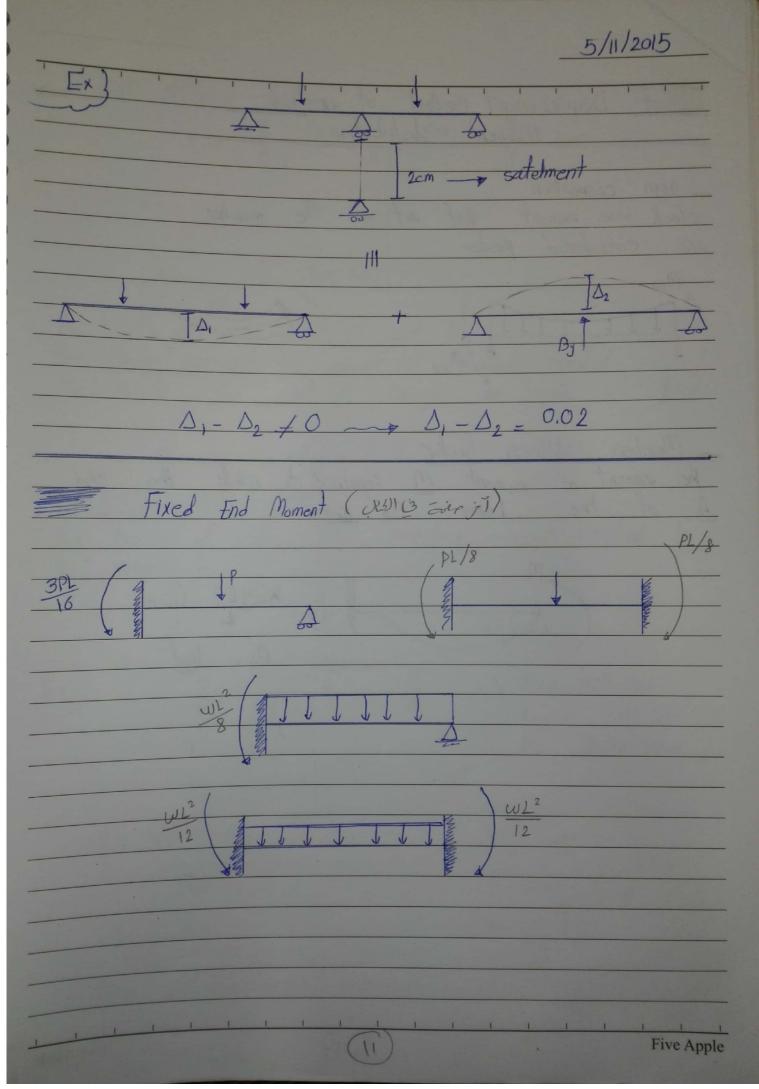
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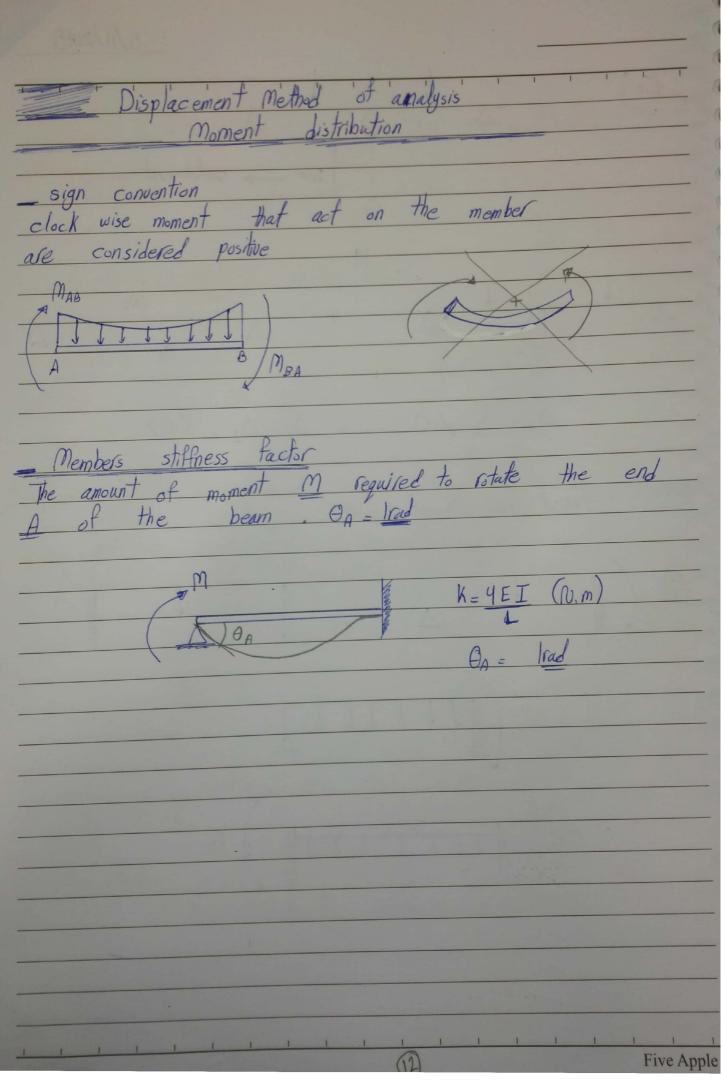


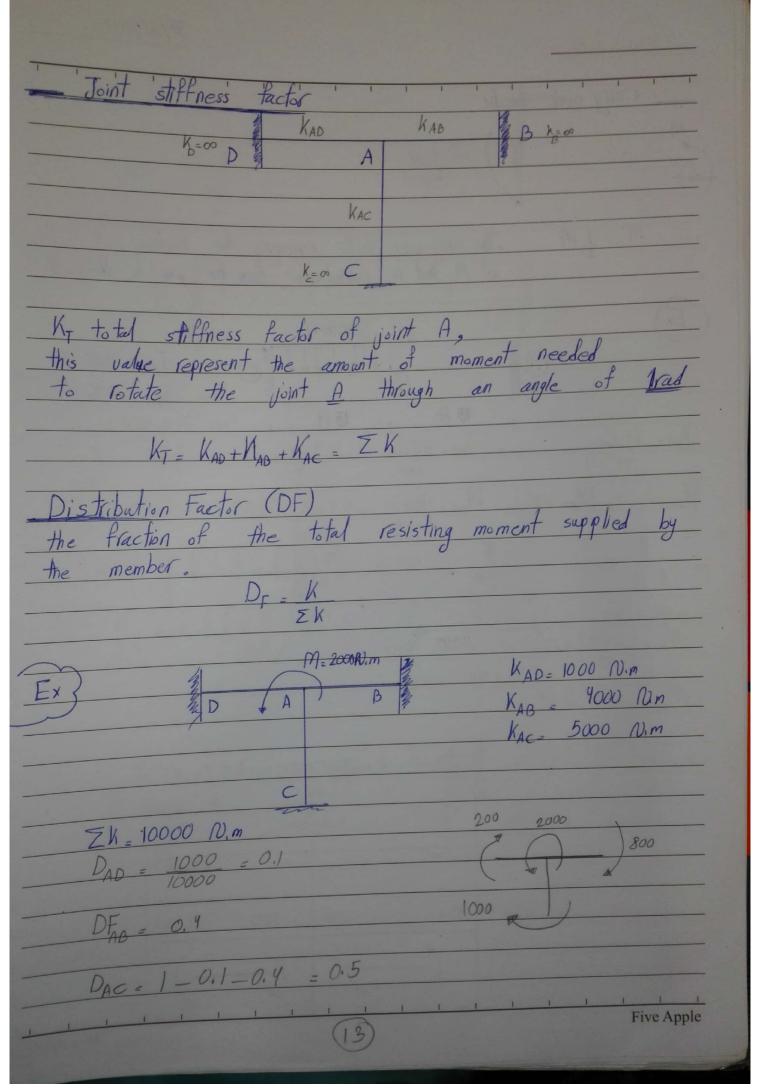
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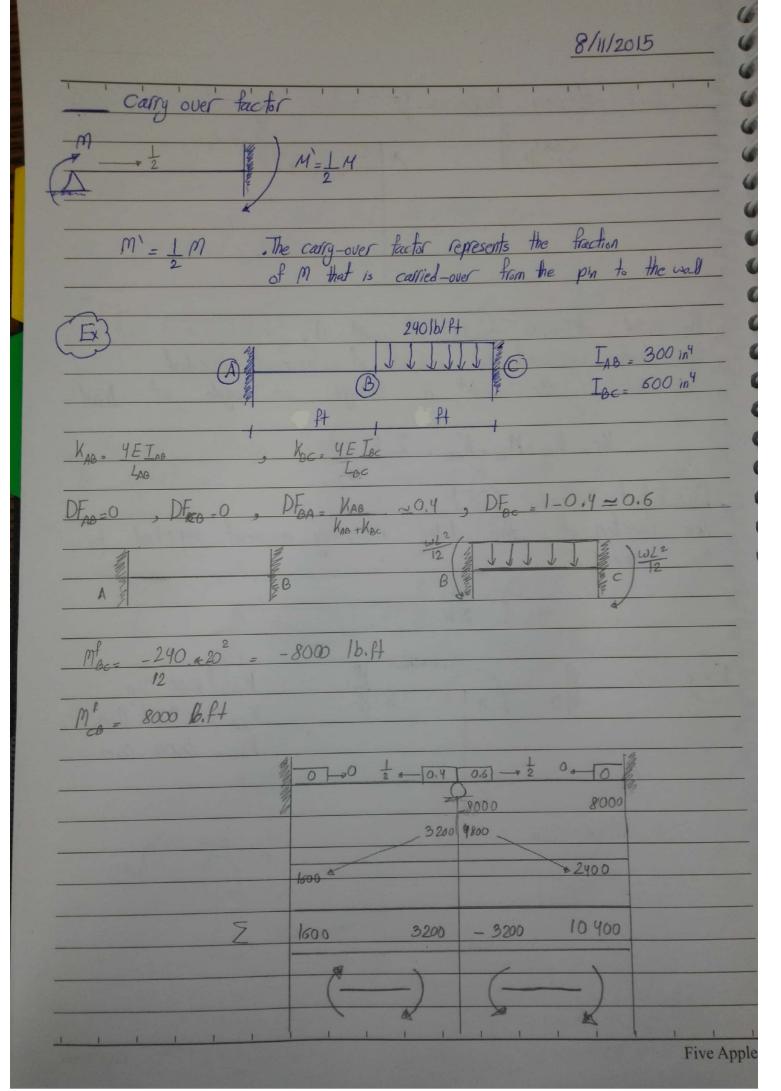




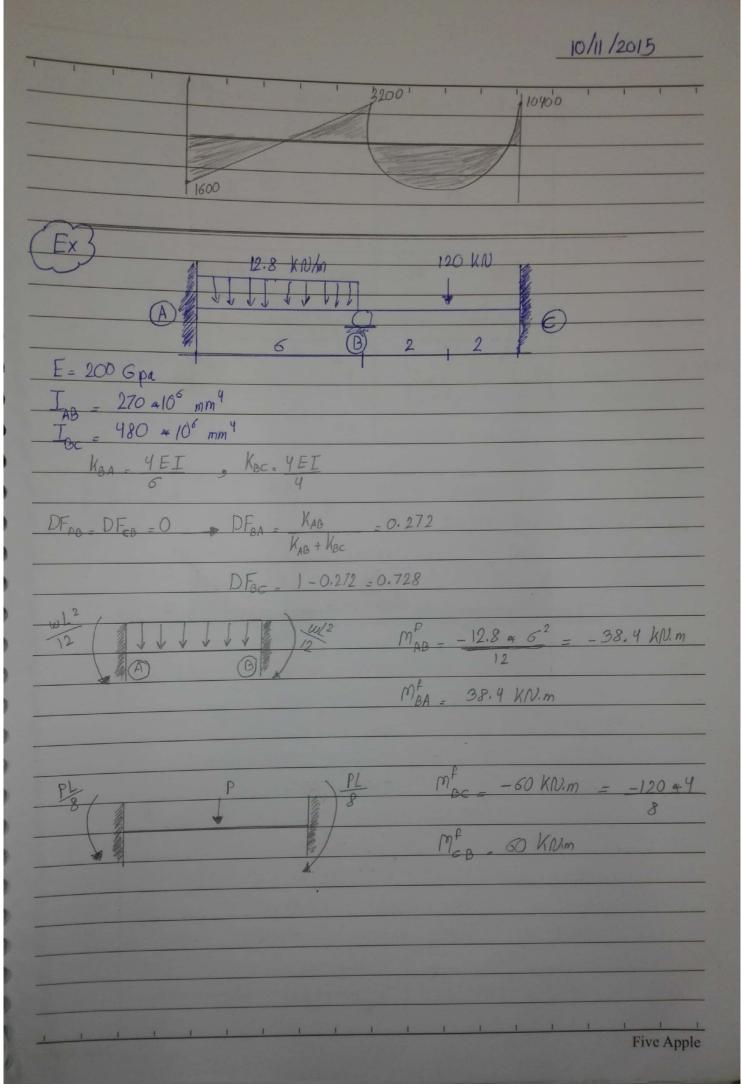
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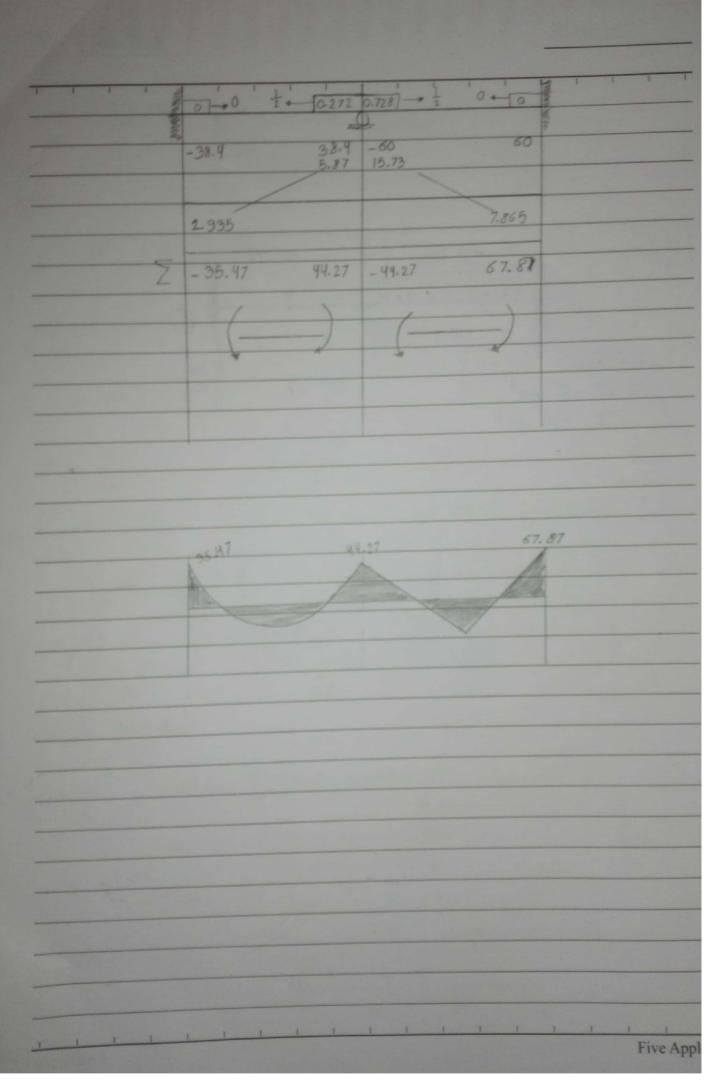




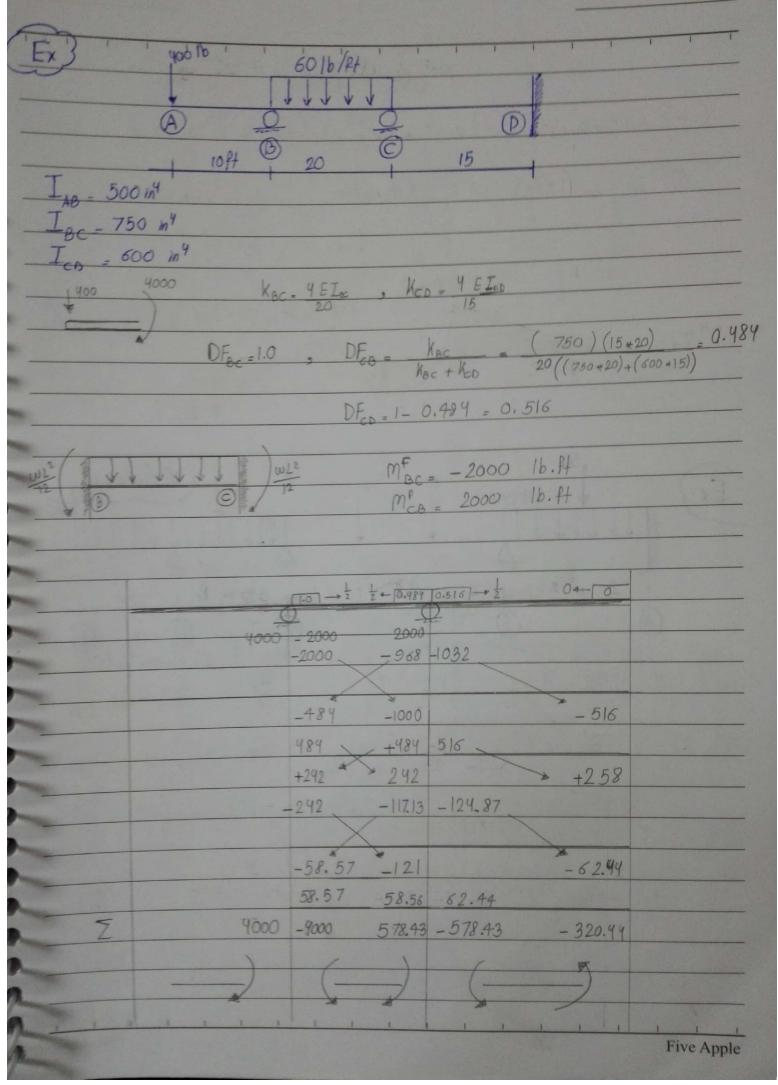
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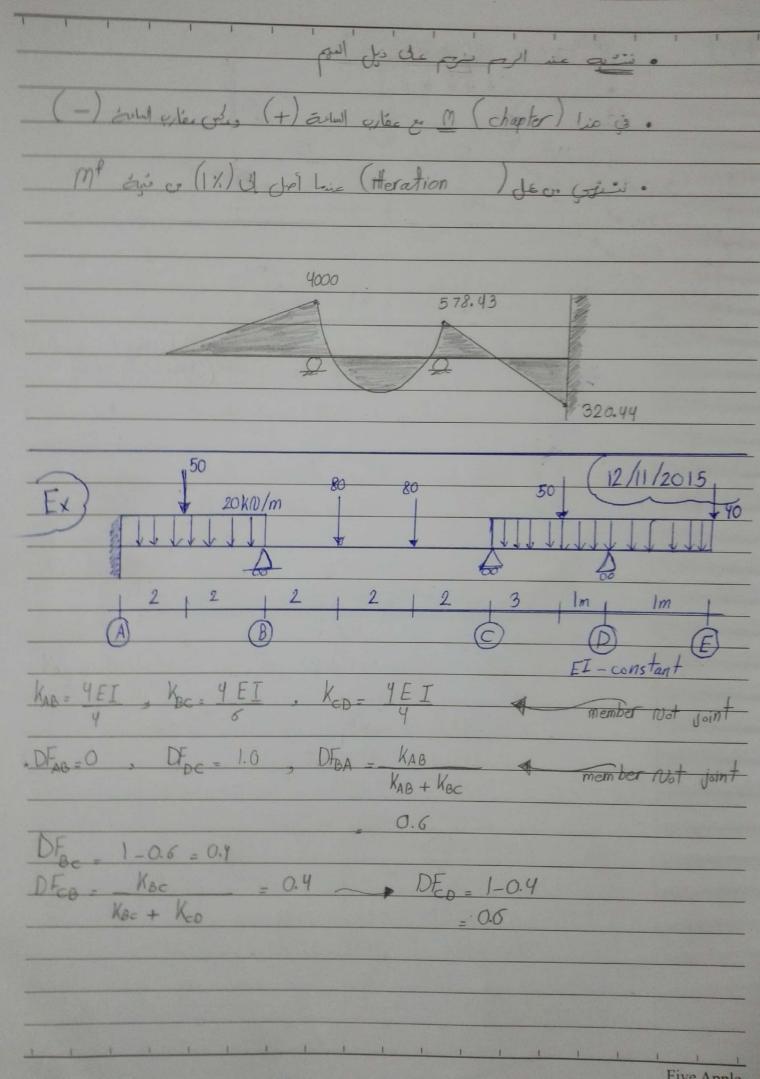
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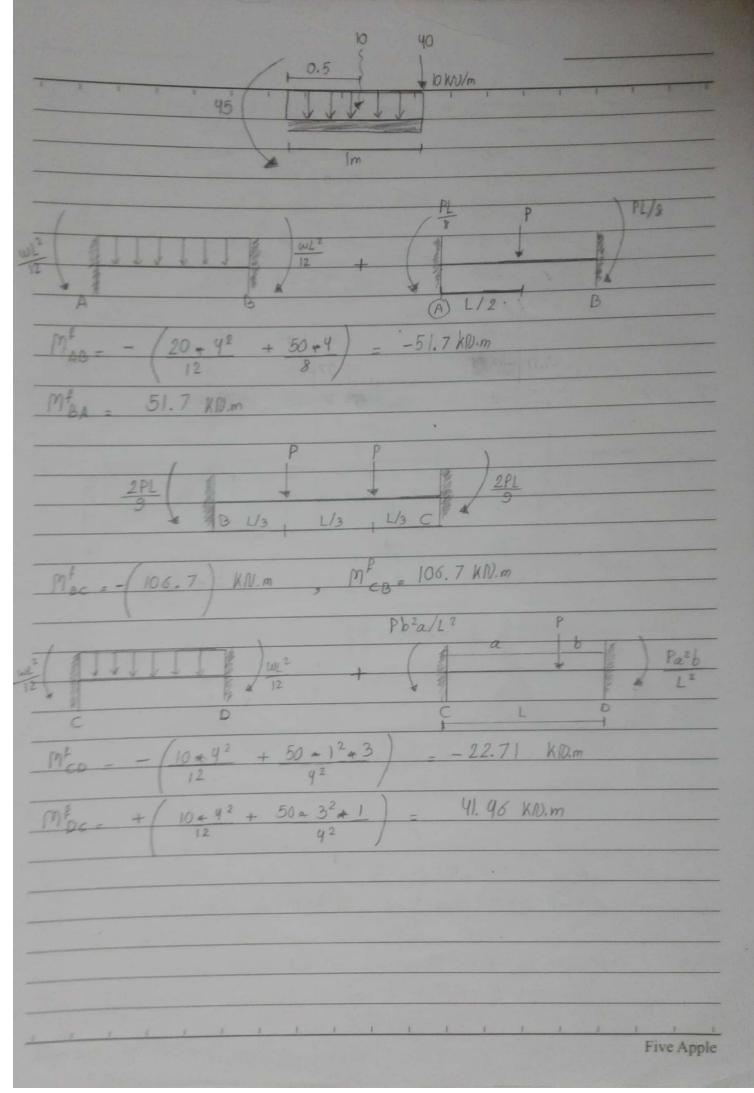


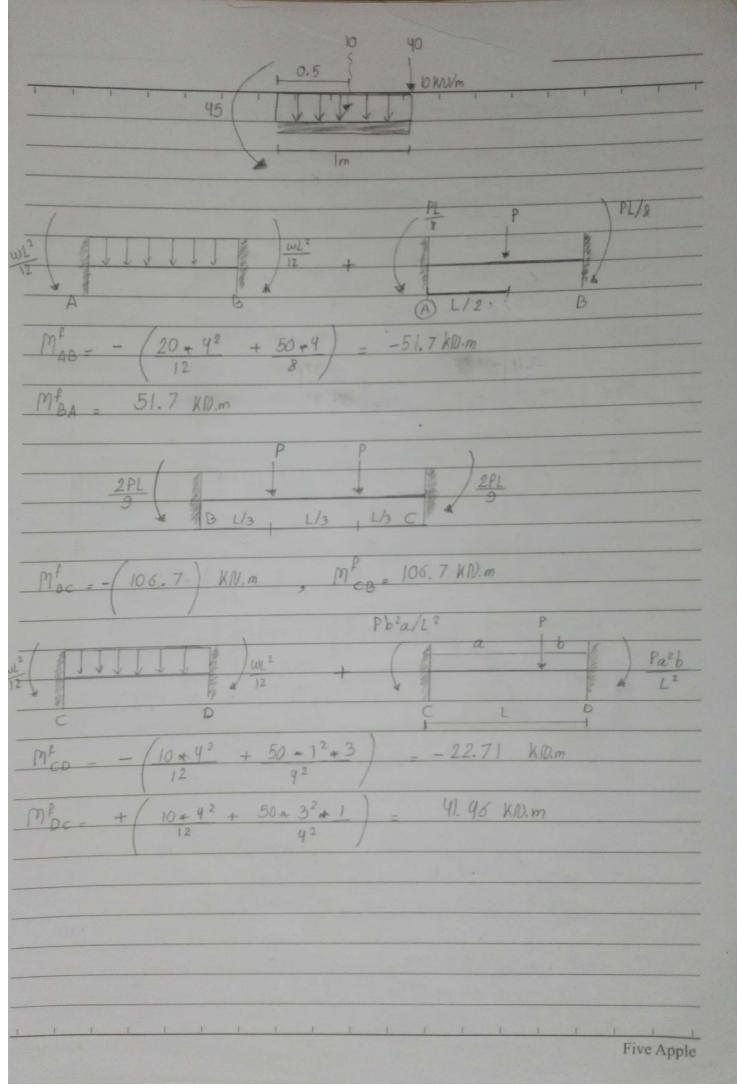
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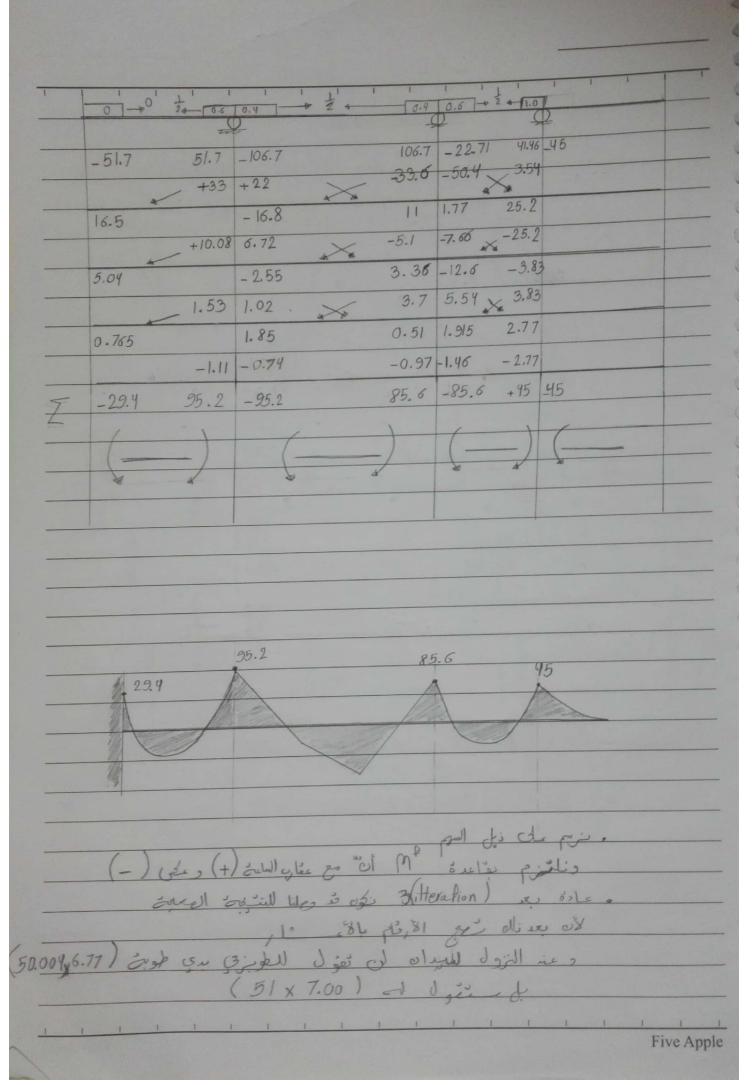


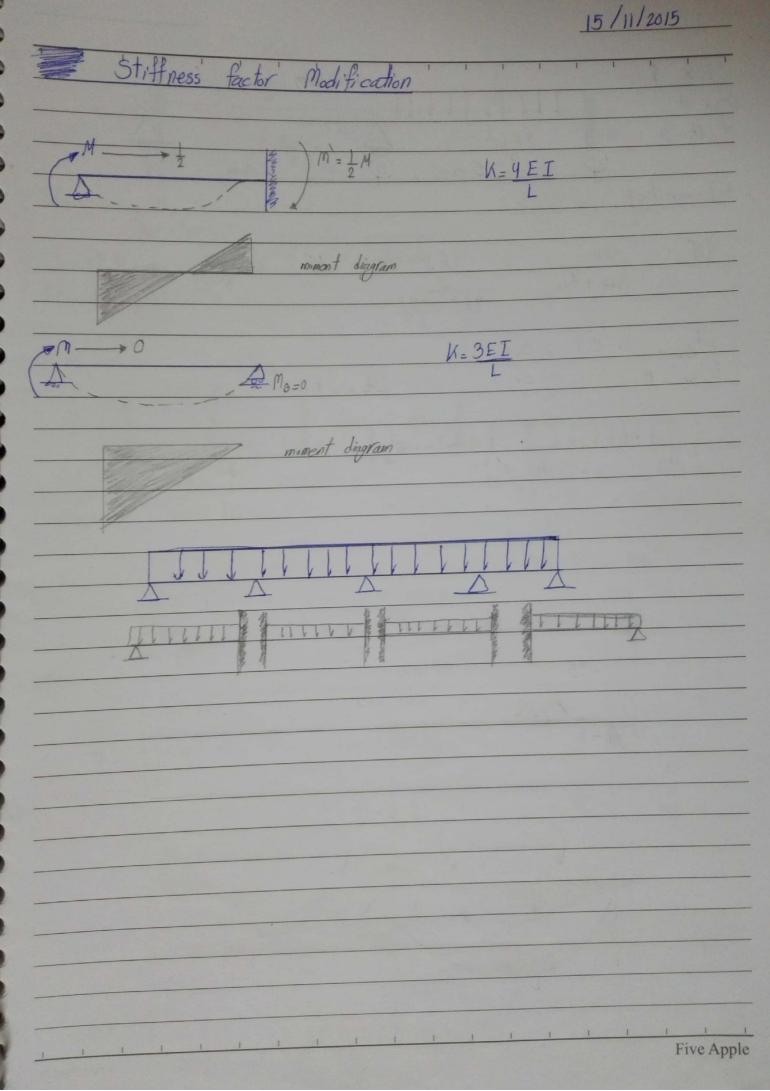
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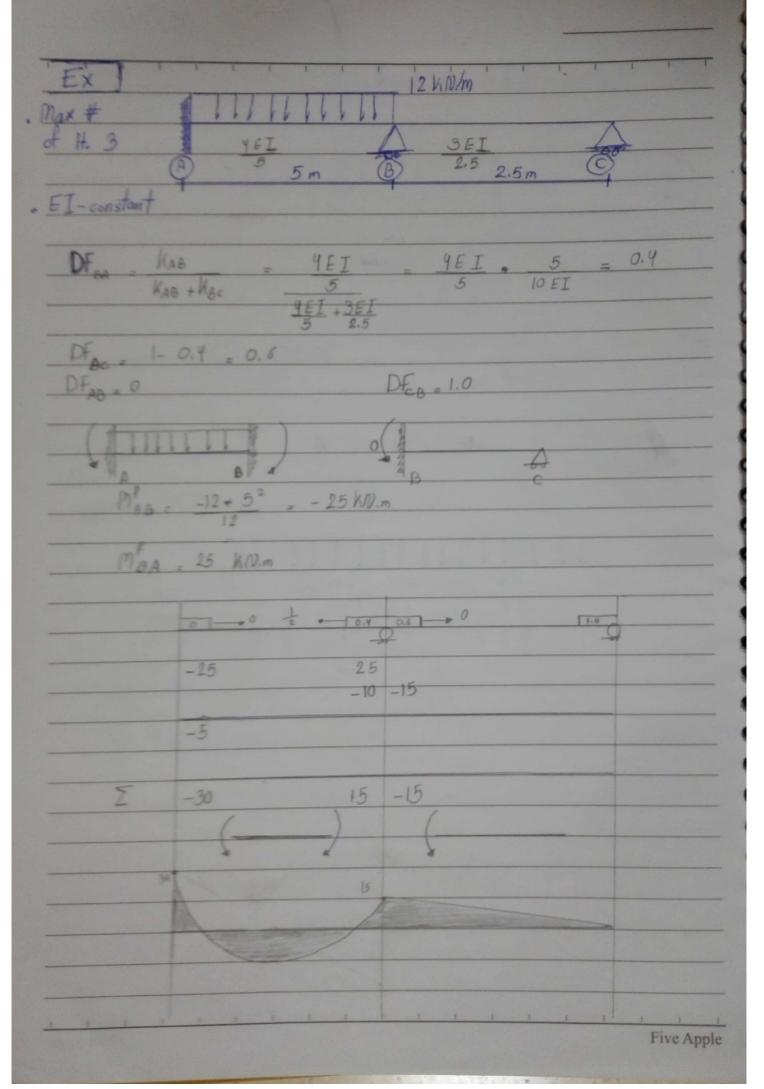




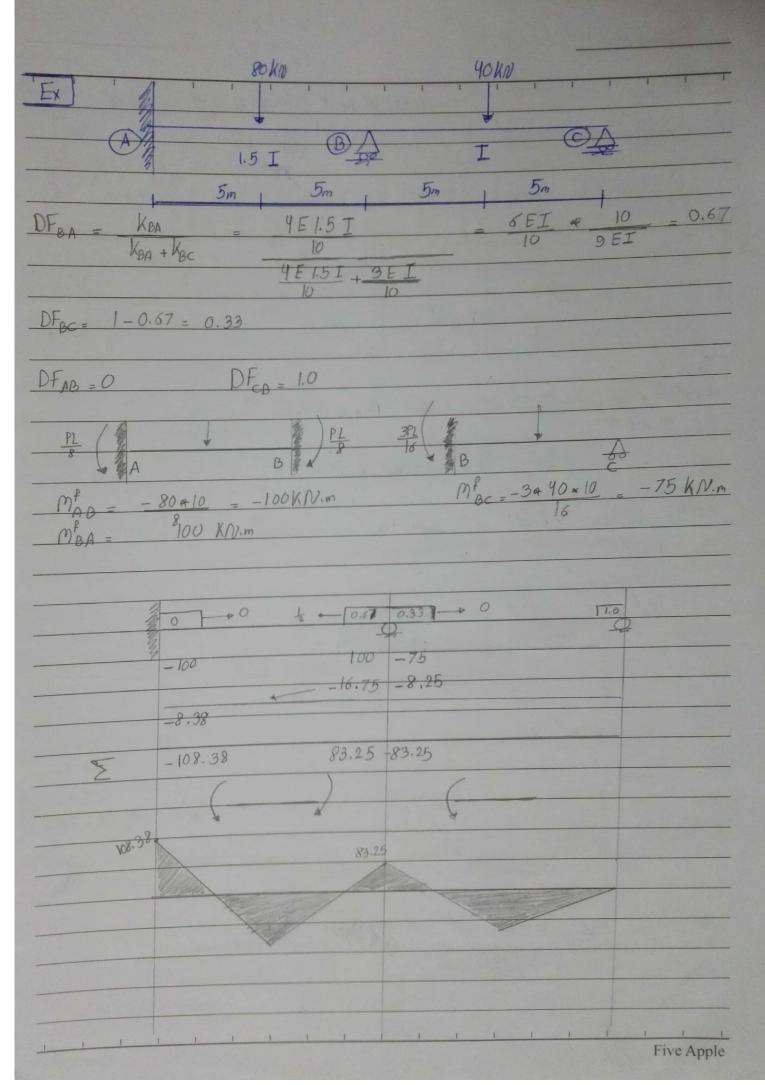




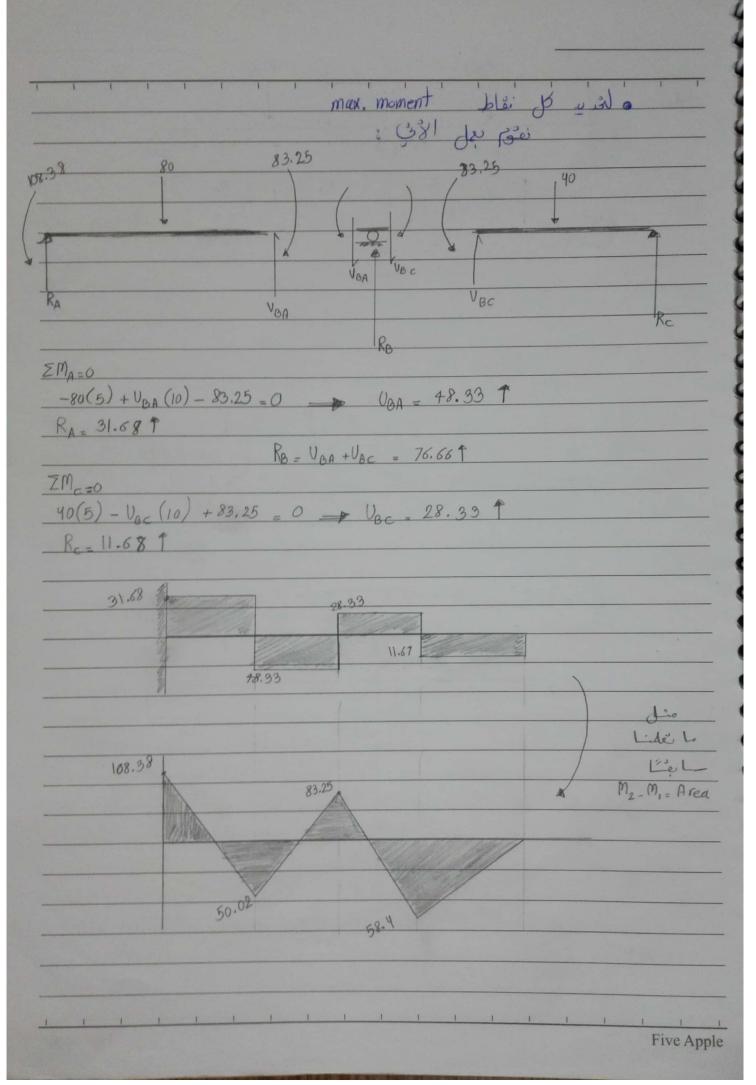




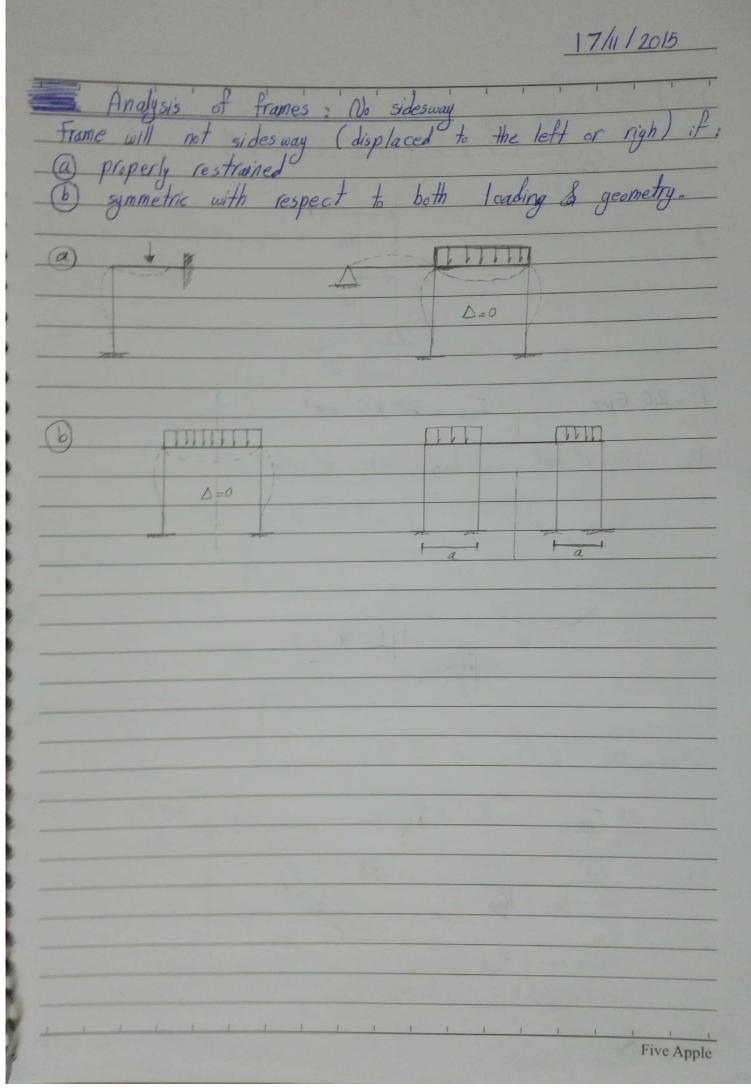
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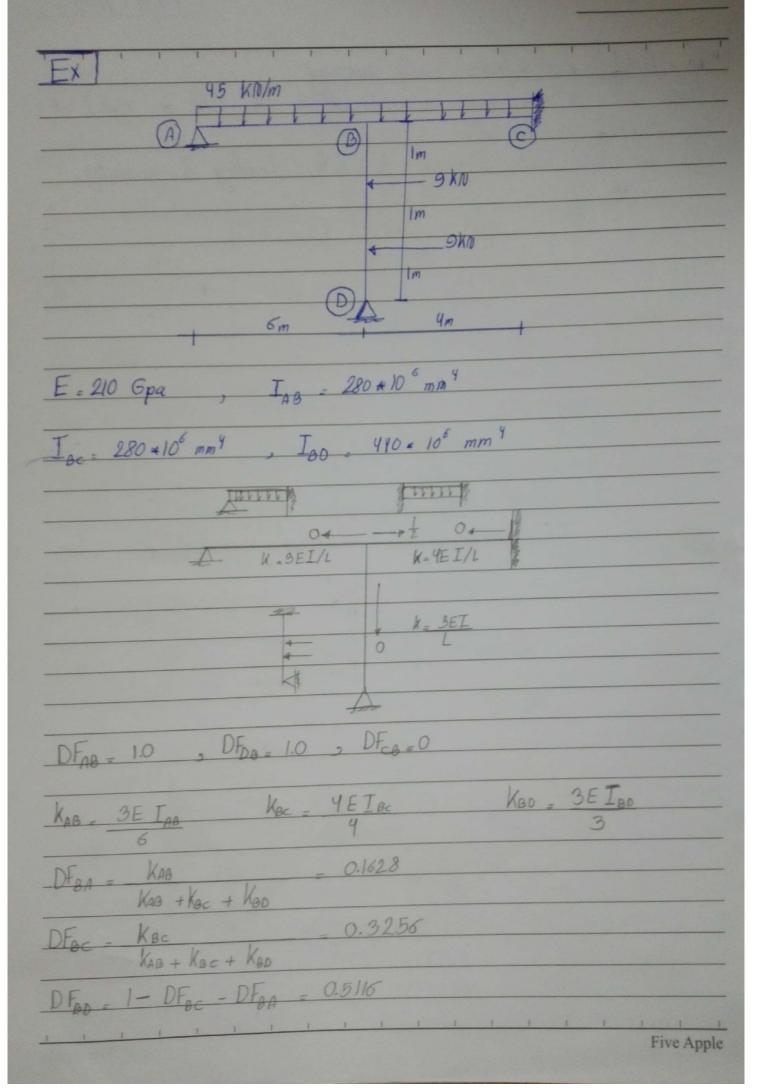


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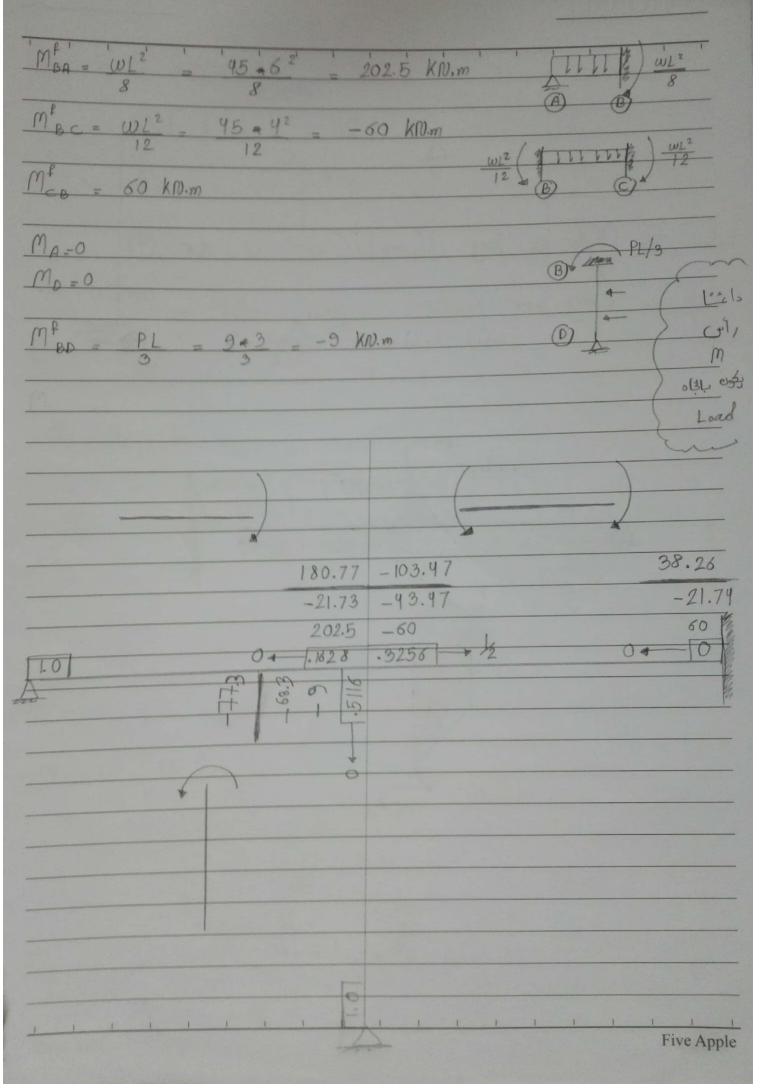


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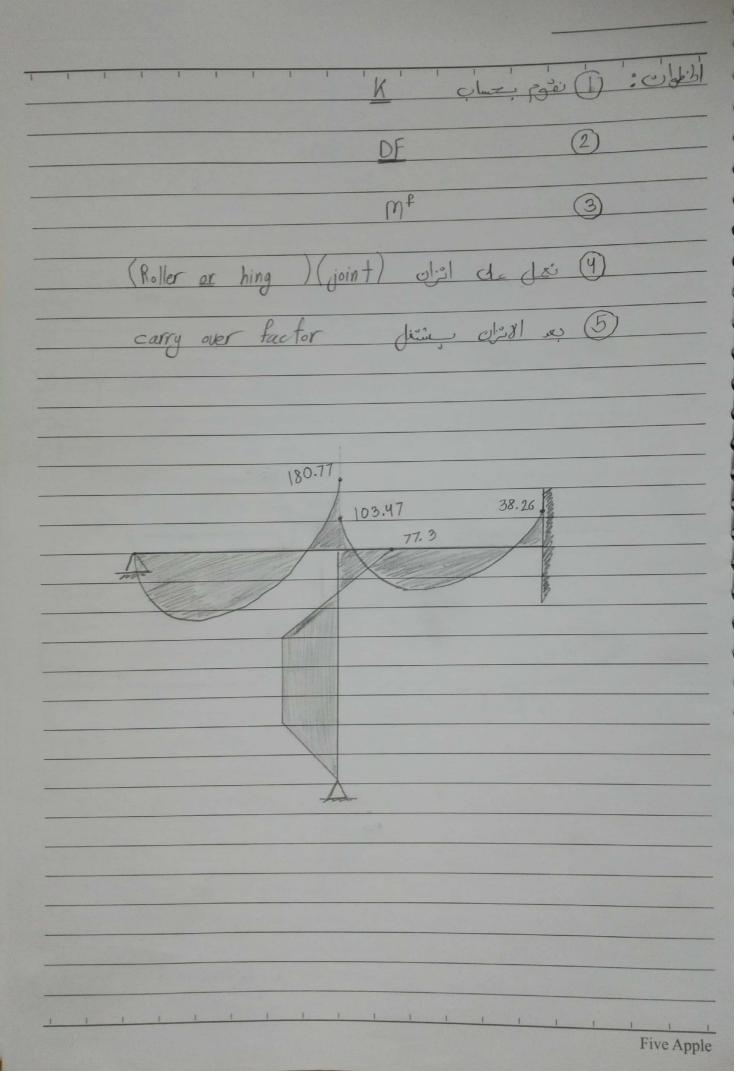


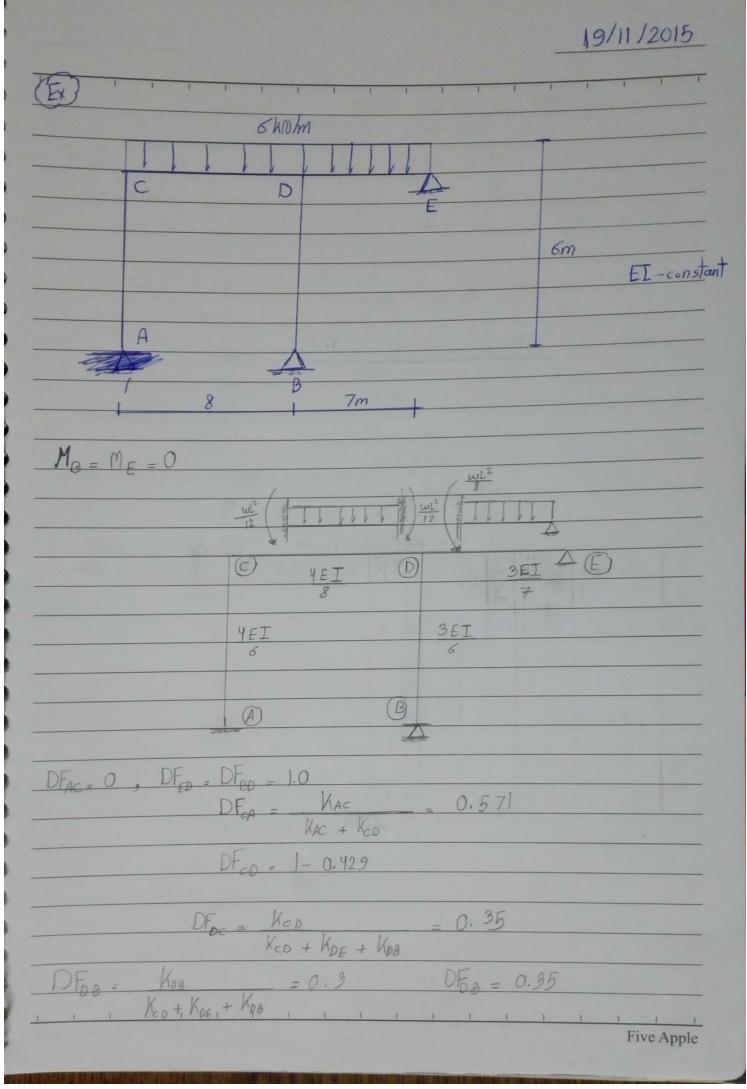


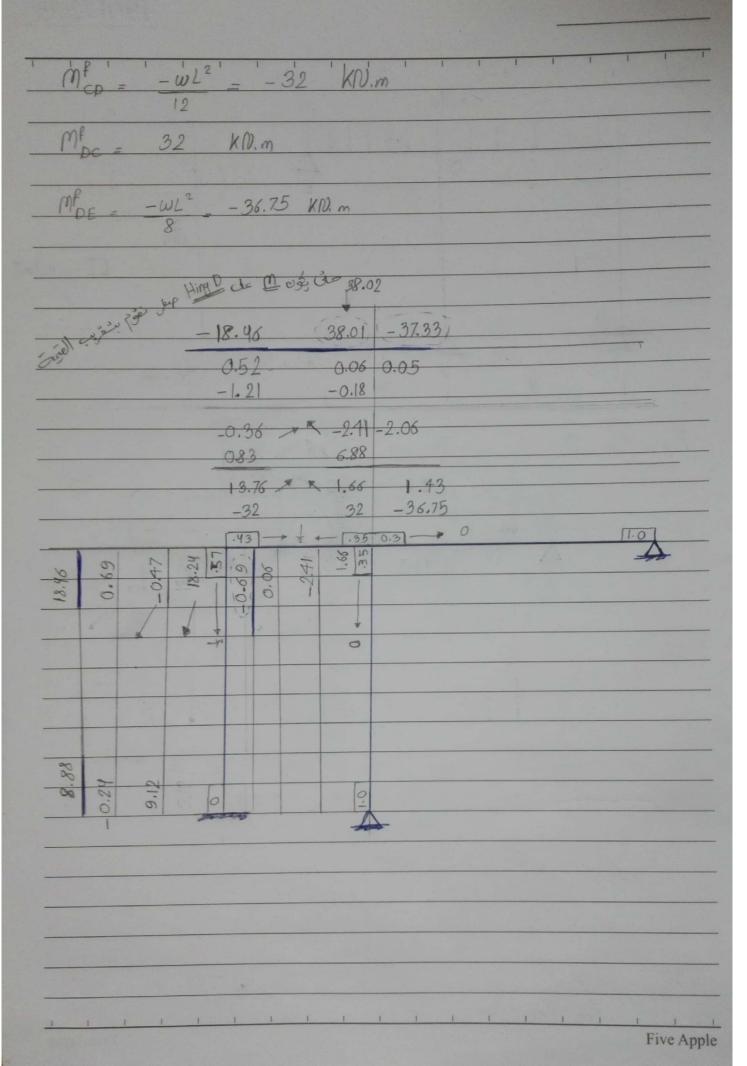
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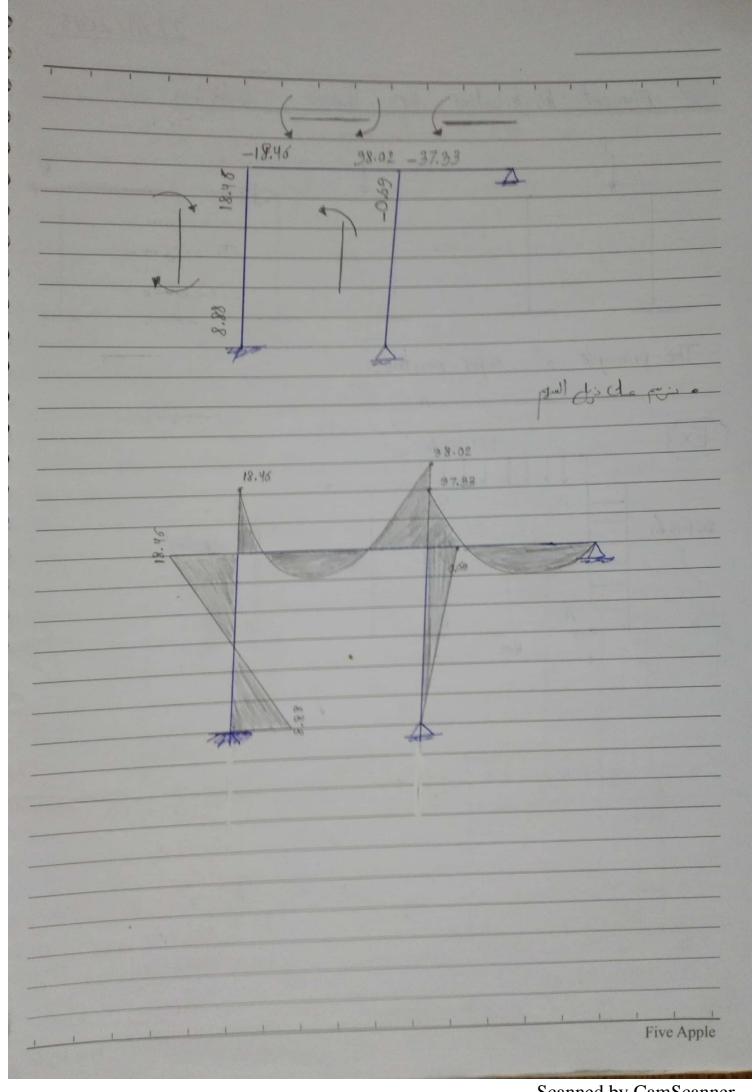


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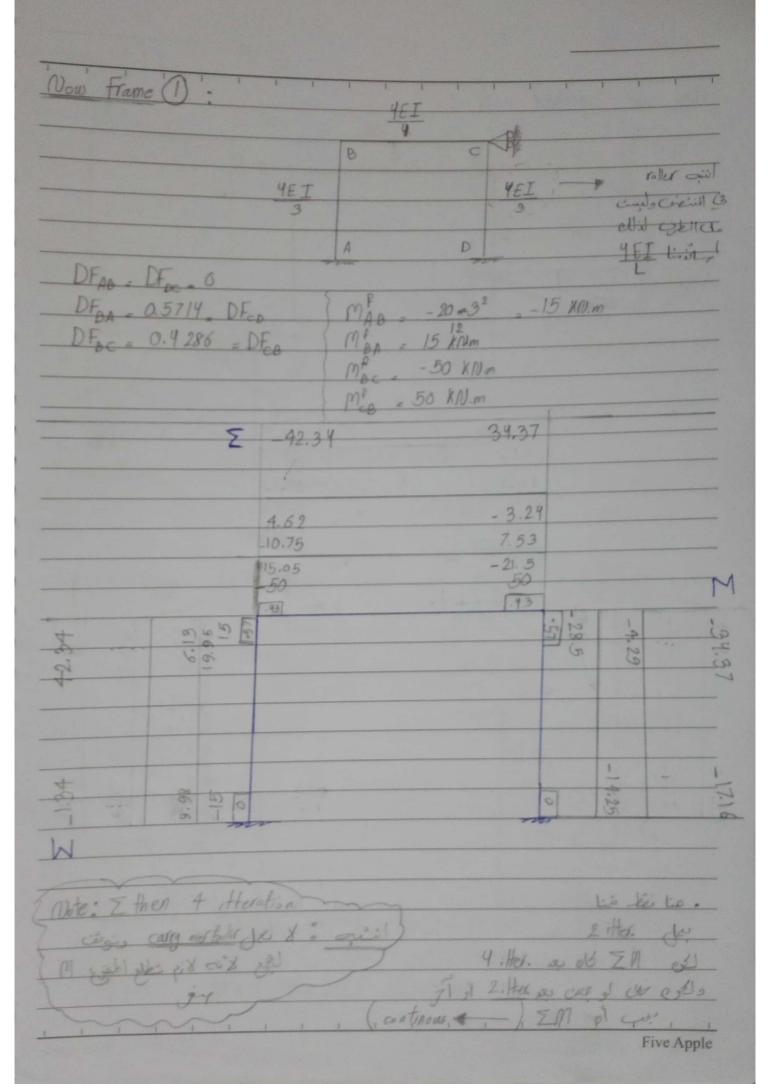


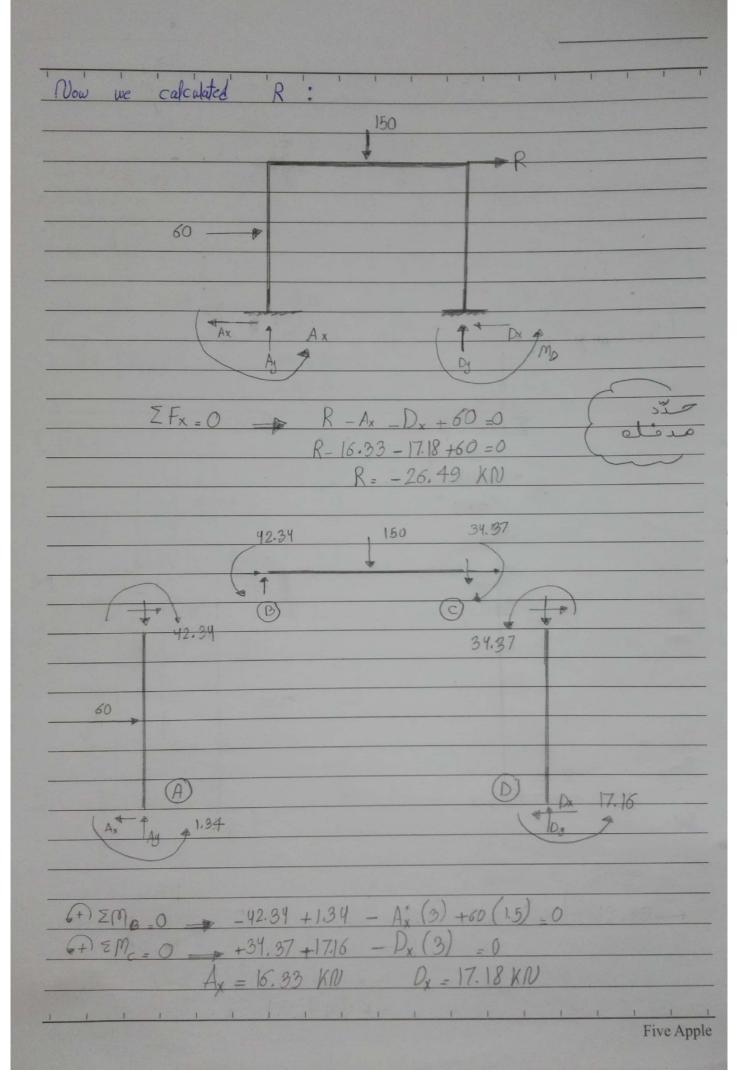




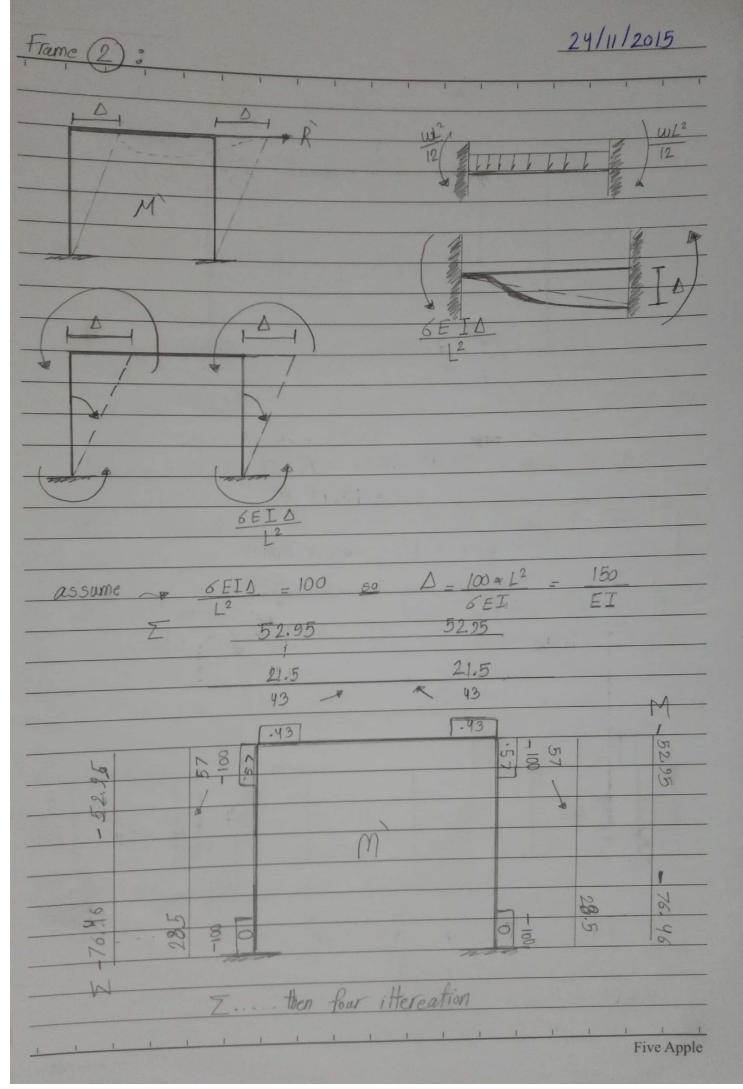
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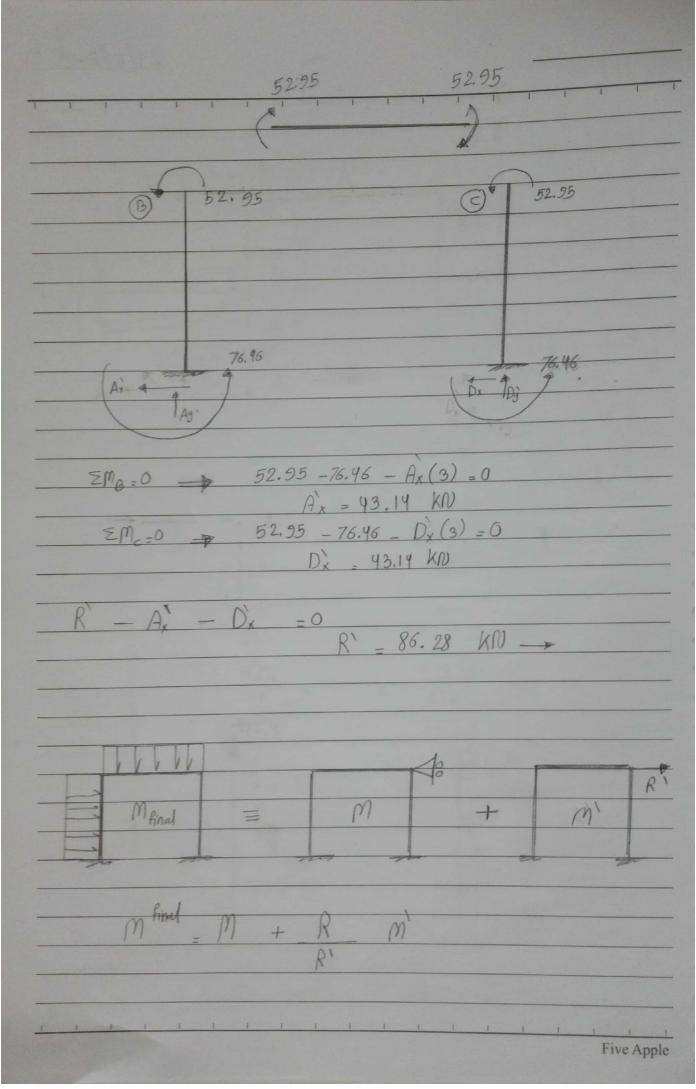


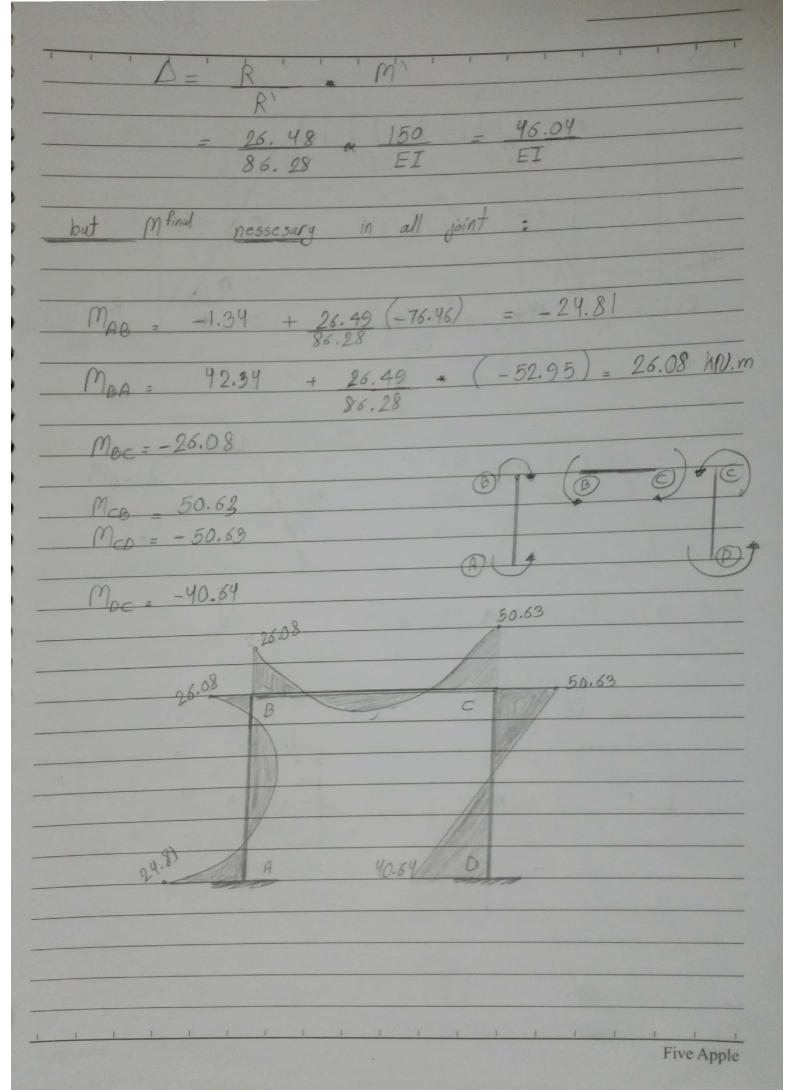


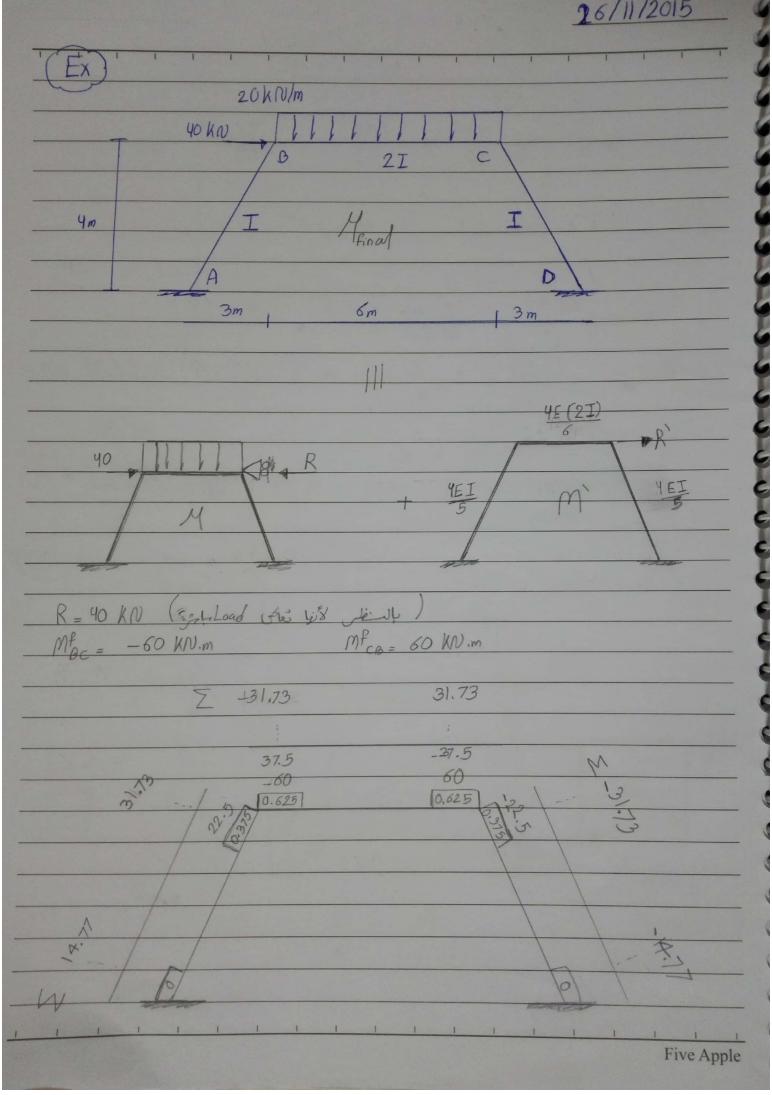
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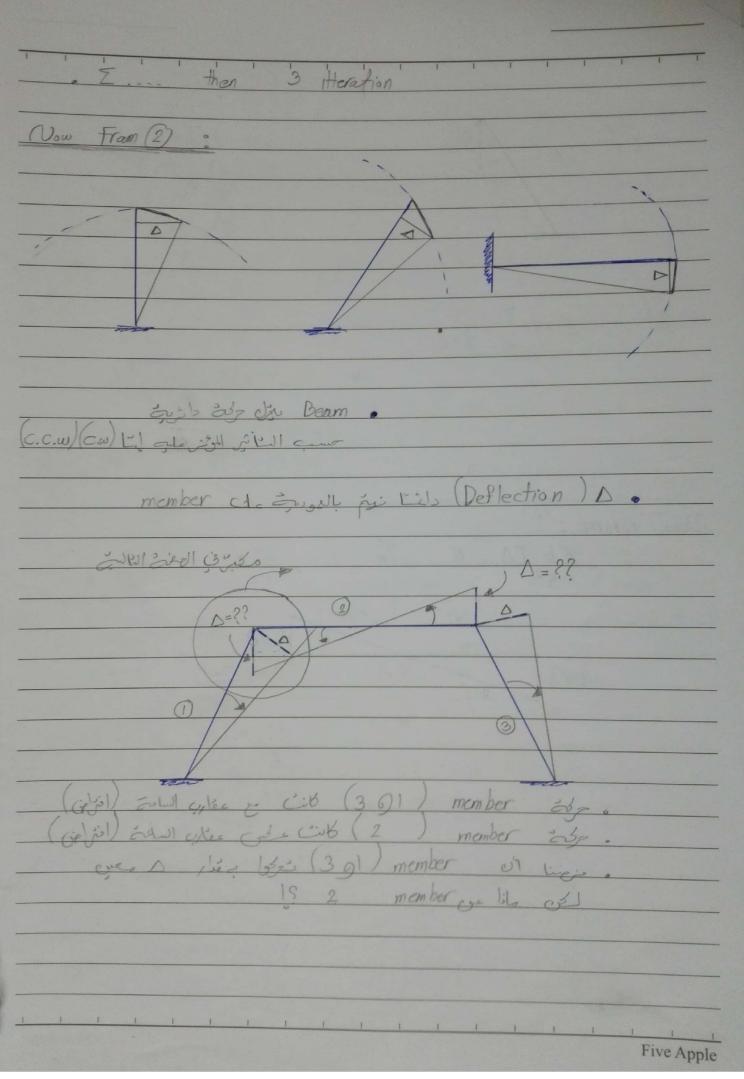
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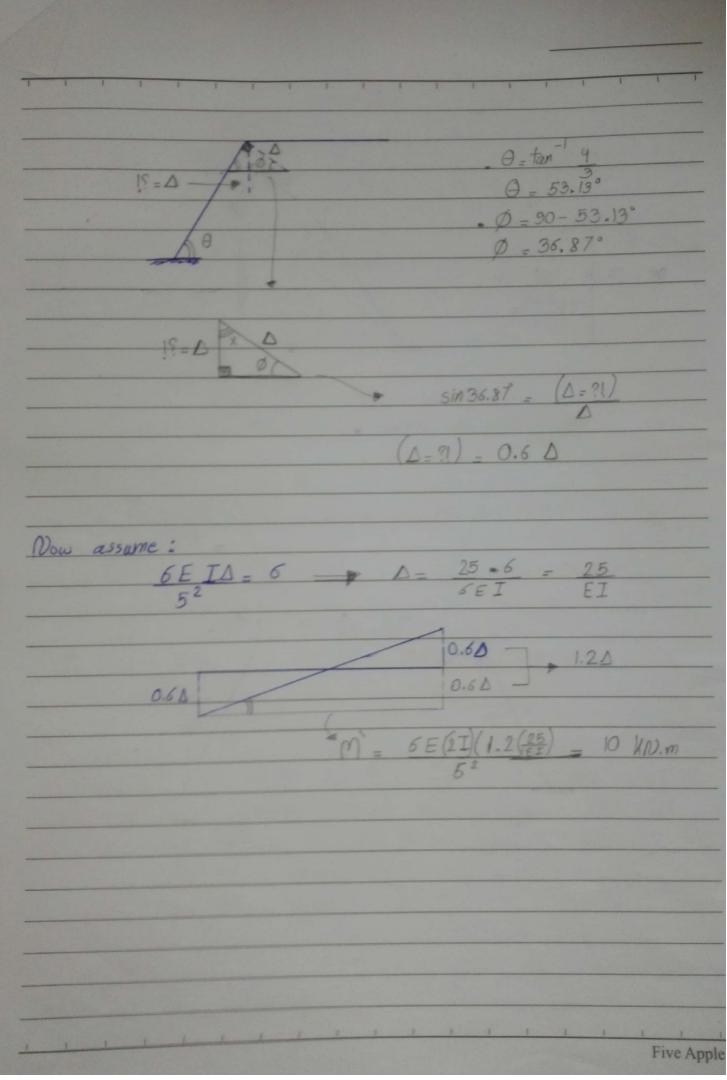


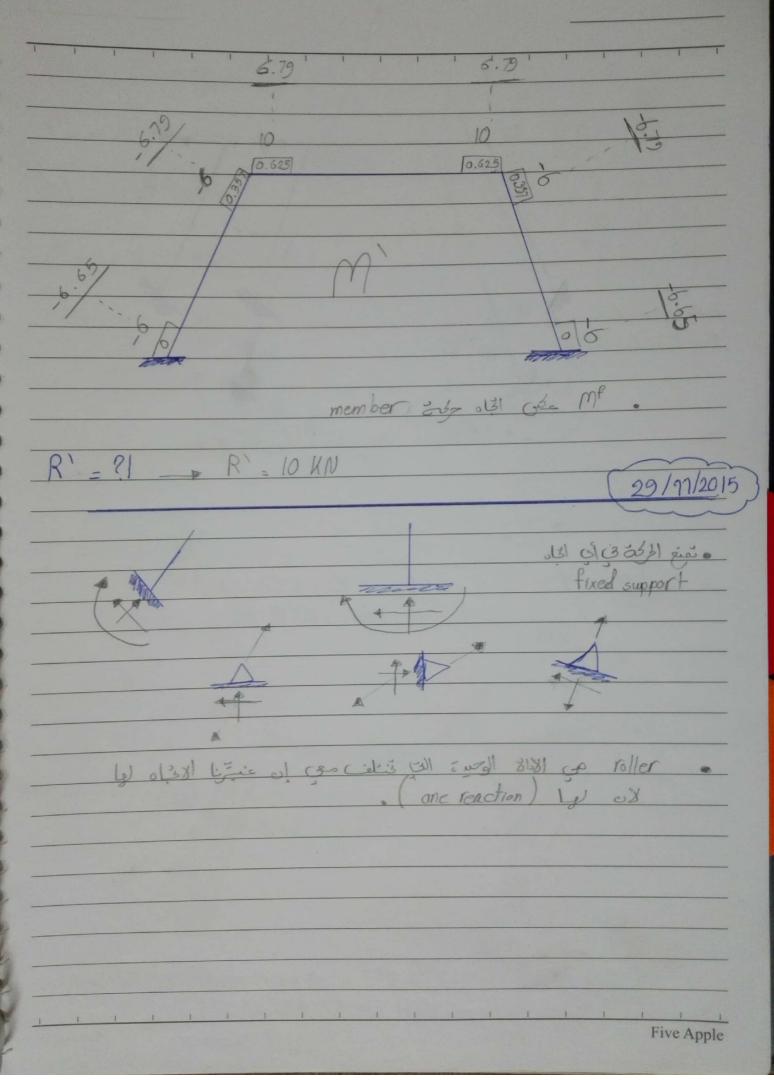




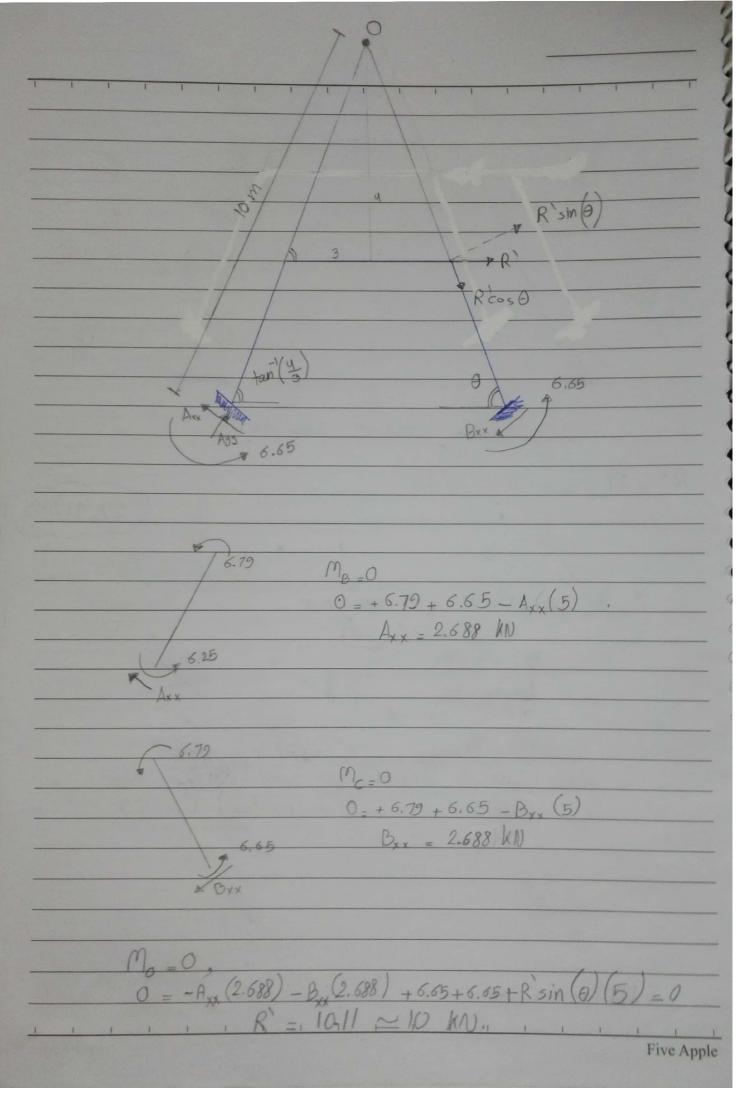
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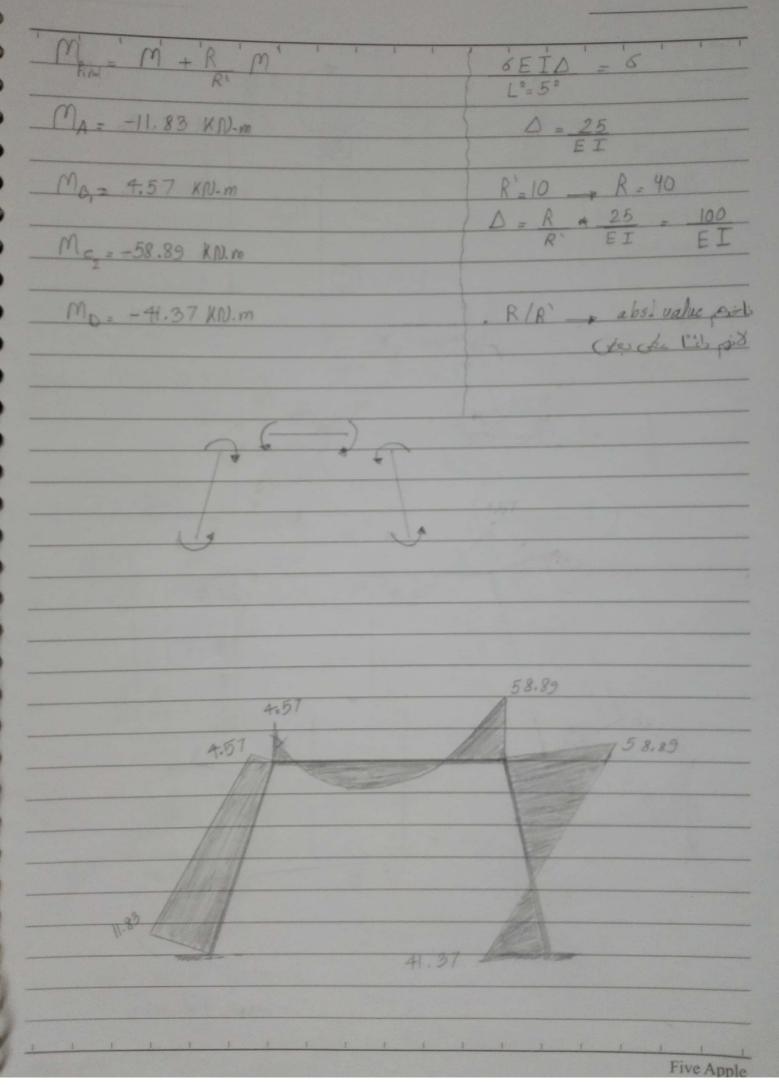




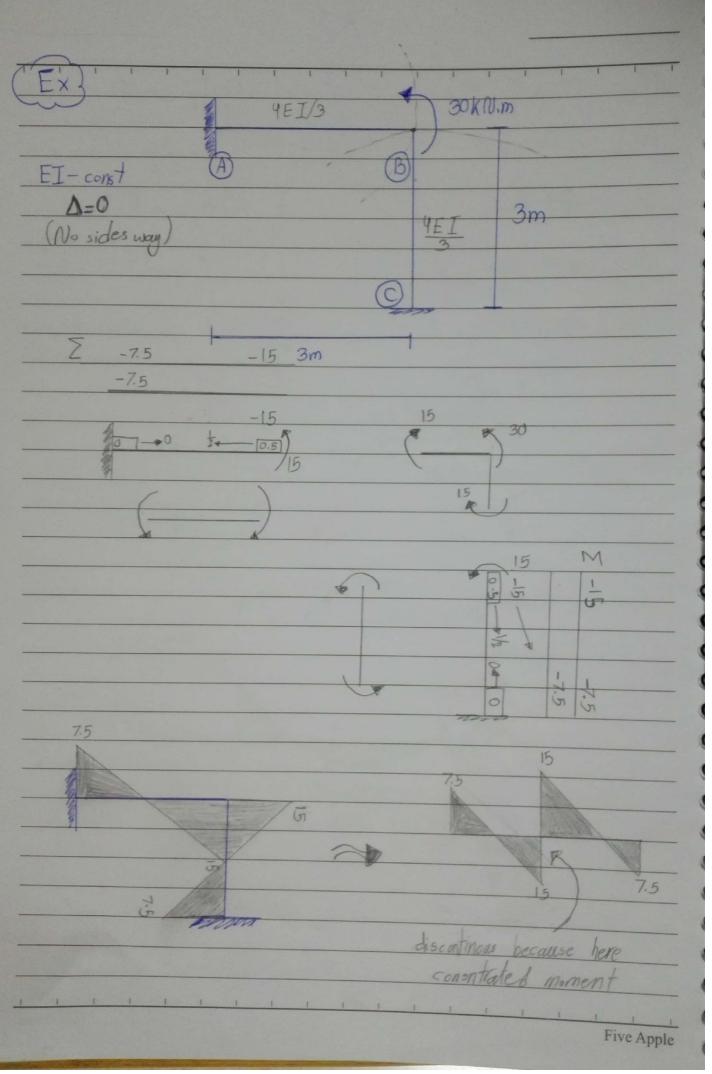
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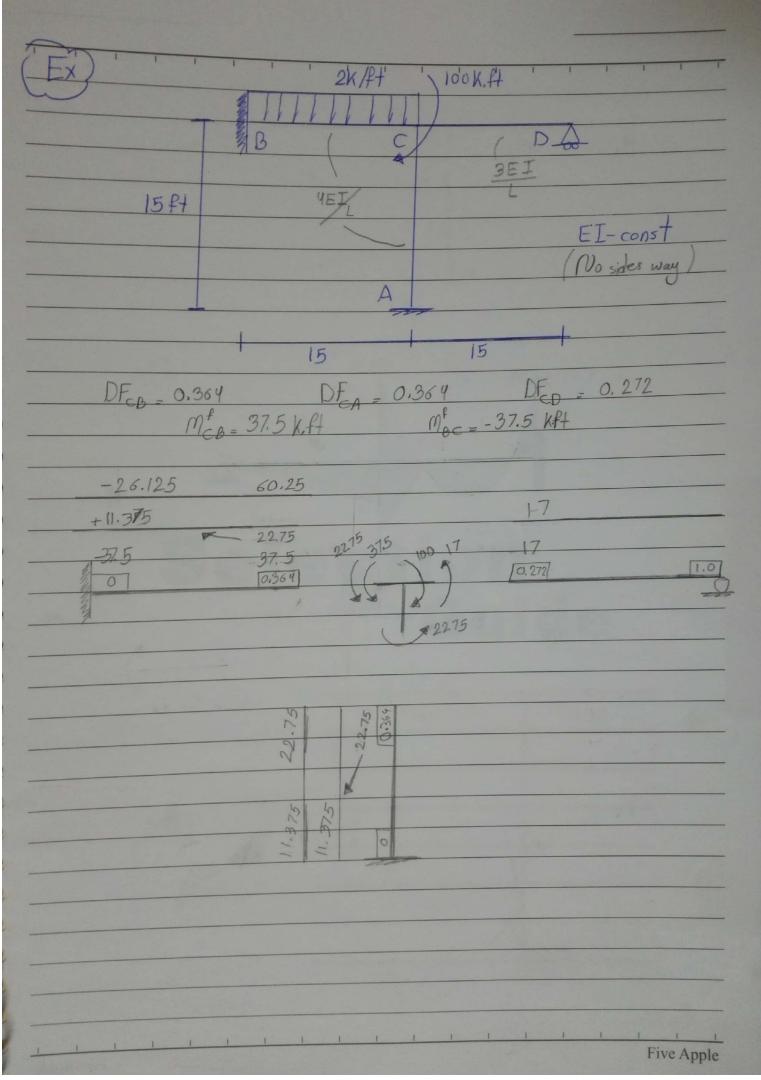
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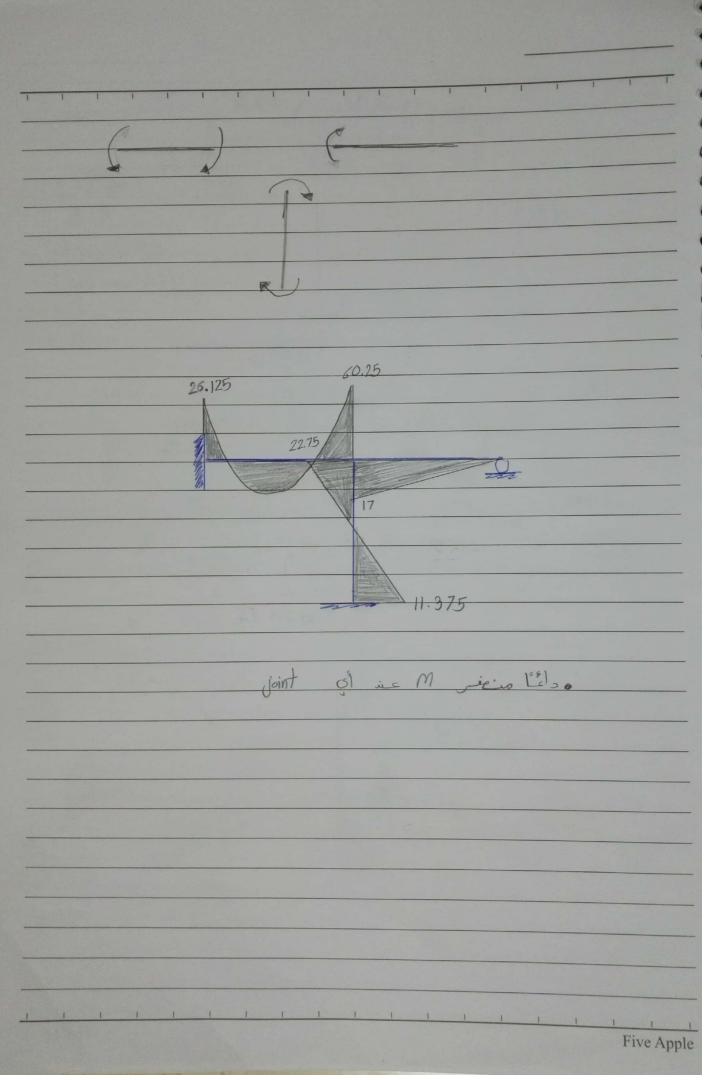
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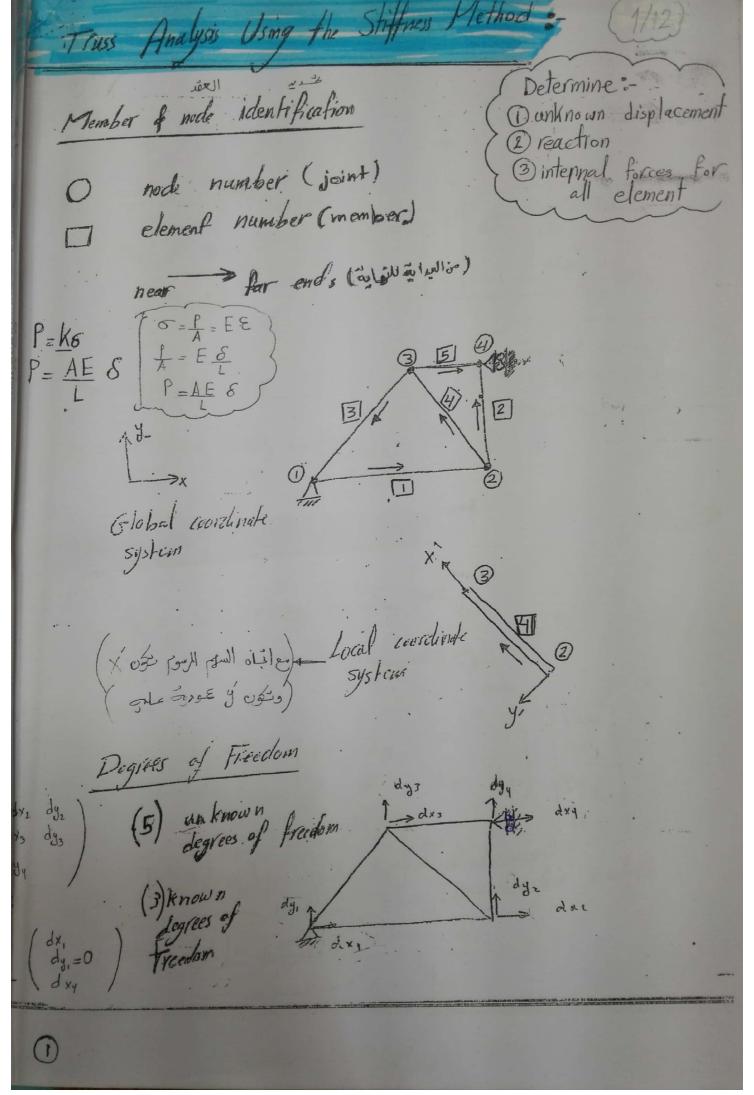


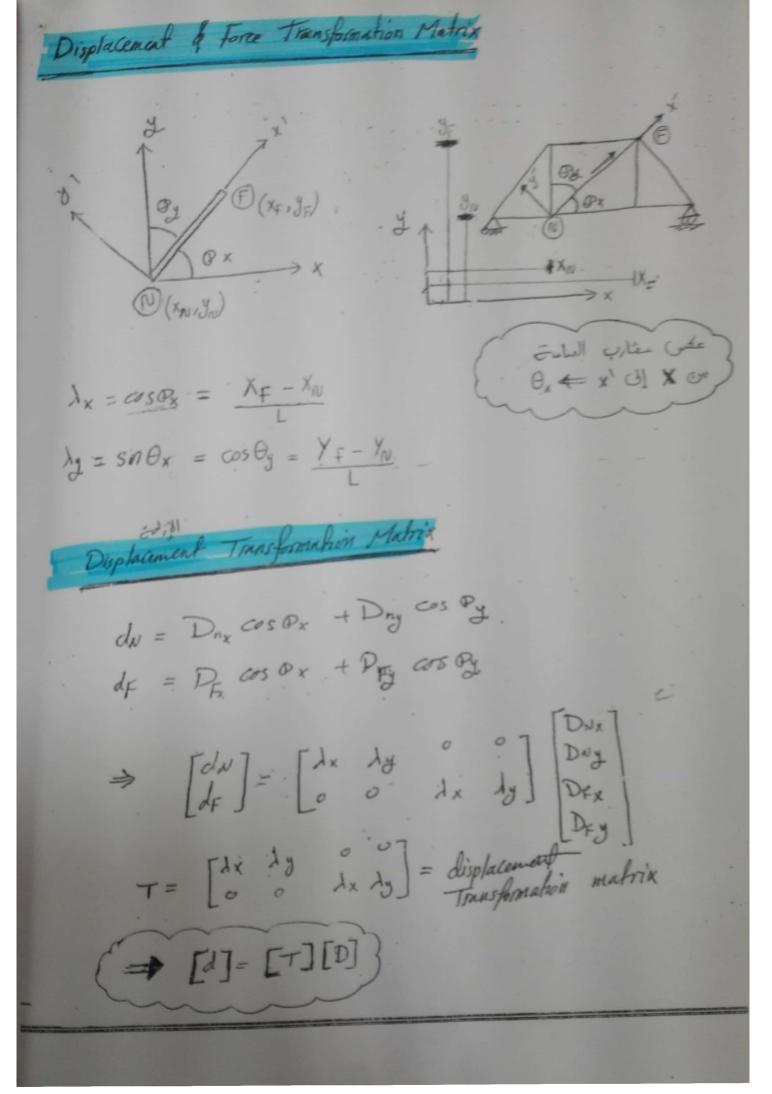
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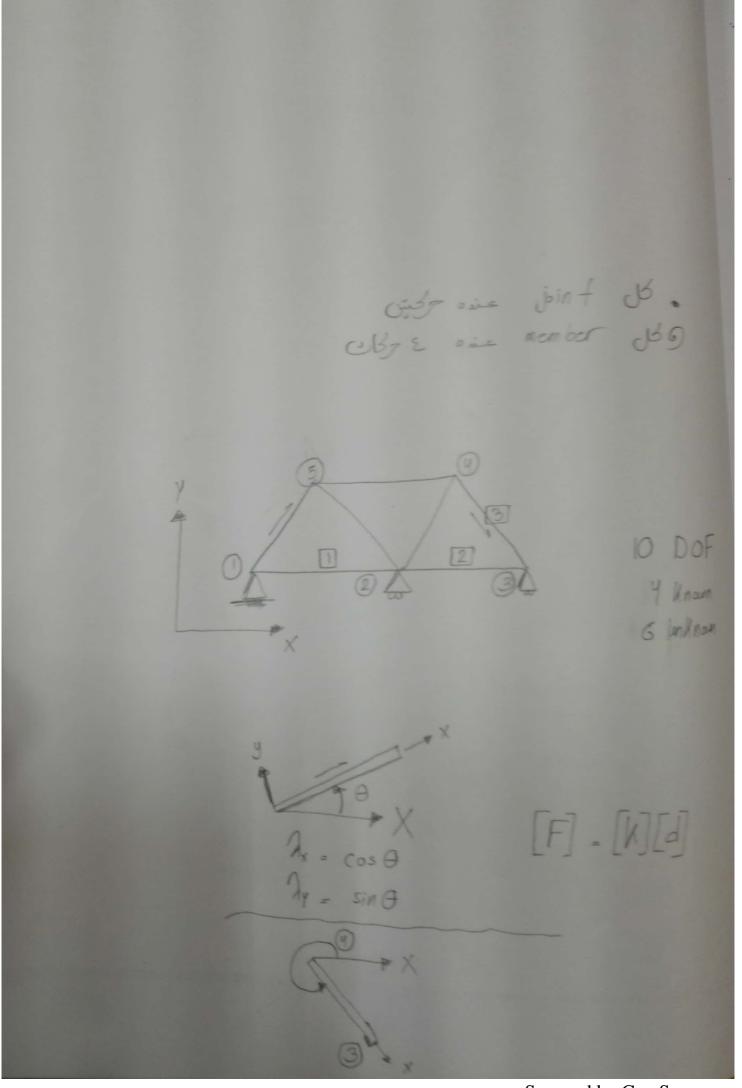


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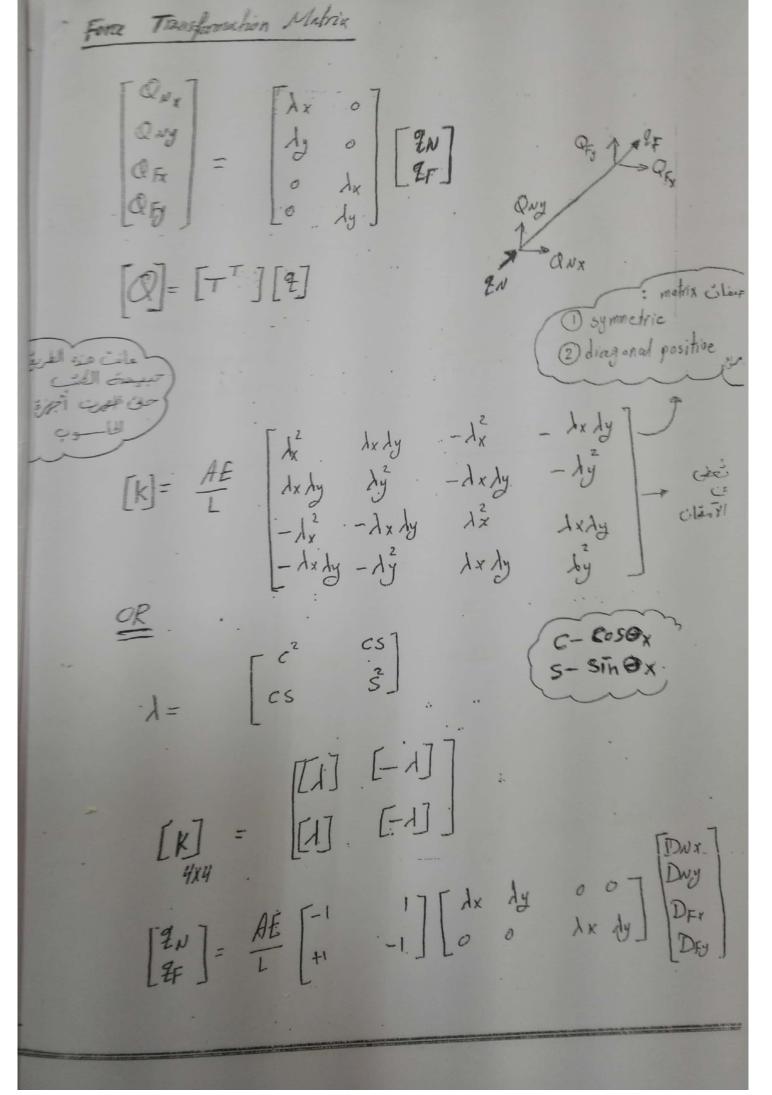




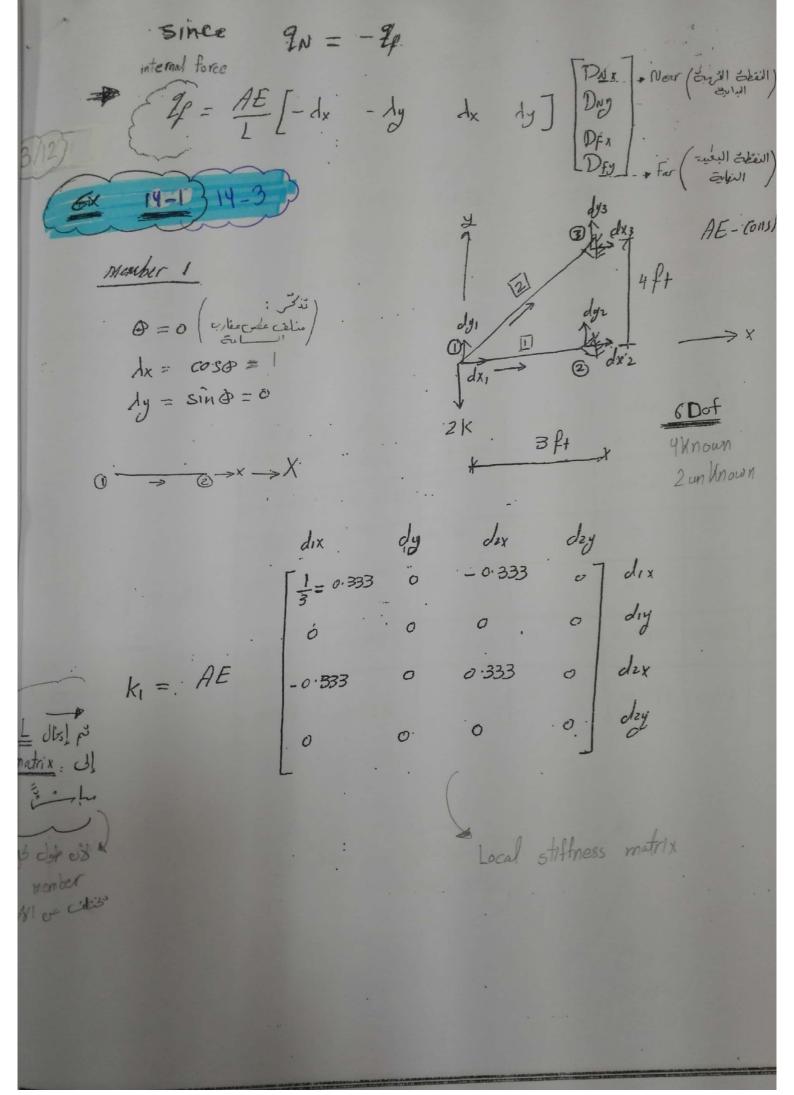




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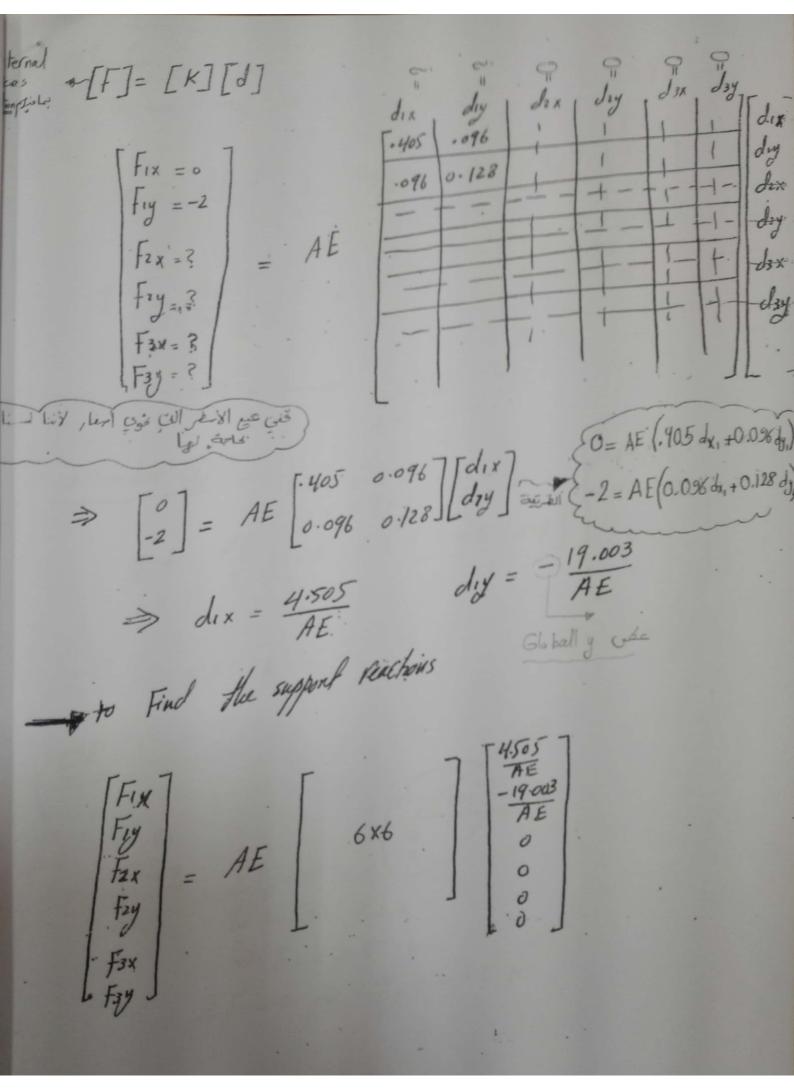


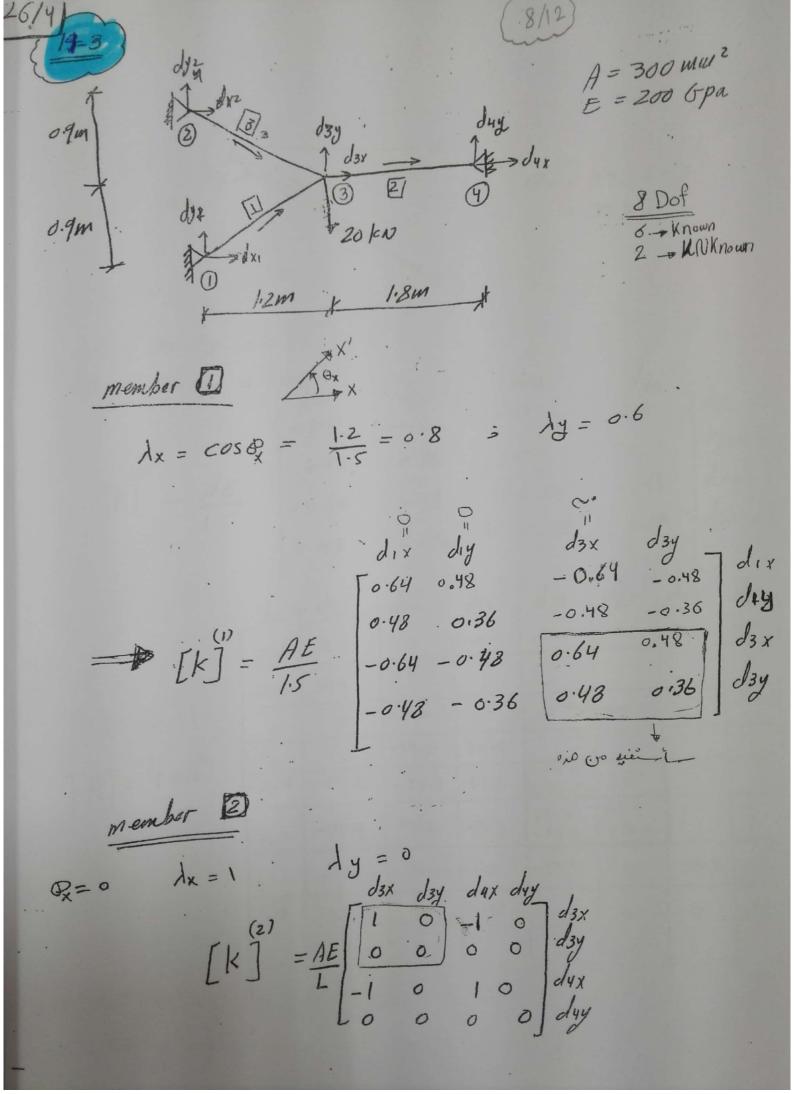
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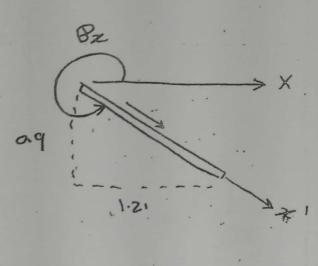


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$P = \tan^{-1}\left(\frac{4}{3}\right)$ $\lambda_{x} = \cos P = 0.6$		/10 x	×	lo	cal stiffnes Modrix
Jy = 0.8 [k2] = AE	$\frac{d1x}{5} = 0.072$ 0.096 -0.072	d14 6.096 0.128 -0.096	0.096	2 -0:	96 dix 128 diy 128 diy 13x 128 diy
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$$\theta_{x} = 270 + 53.1$$

= 323.1°

$$Az = \cos \theta z = 0.8$$

$$Ay = \sin \theta z = -0.6$$

$$Ay_{2} = -0.64$$

$$-0.48 = -0.36$$

$$Ay_{3} = 0.36$$

$$-0.48 = -0.36$$

$$-0.48 = -0.36$$

$$-0.48 = -0.36$$

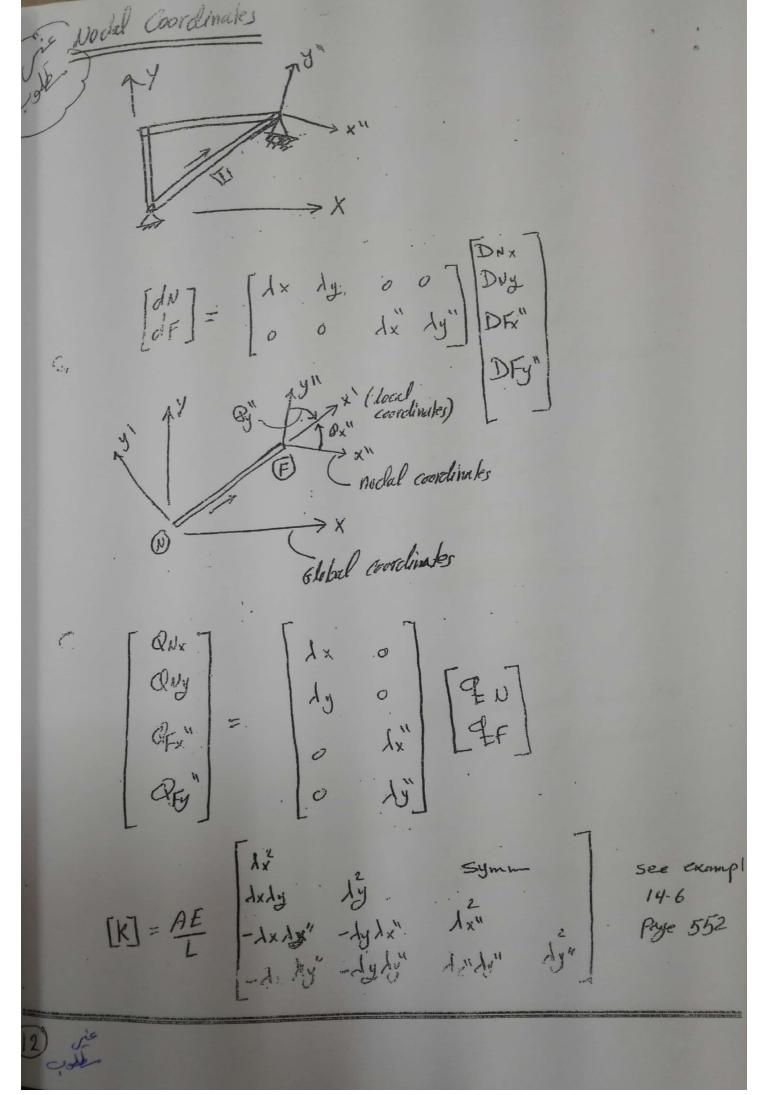
$$-0.48 = -0.36$$

$$-0.48 = -0.36$$

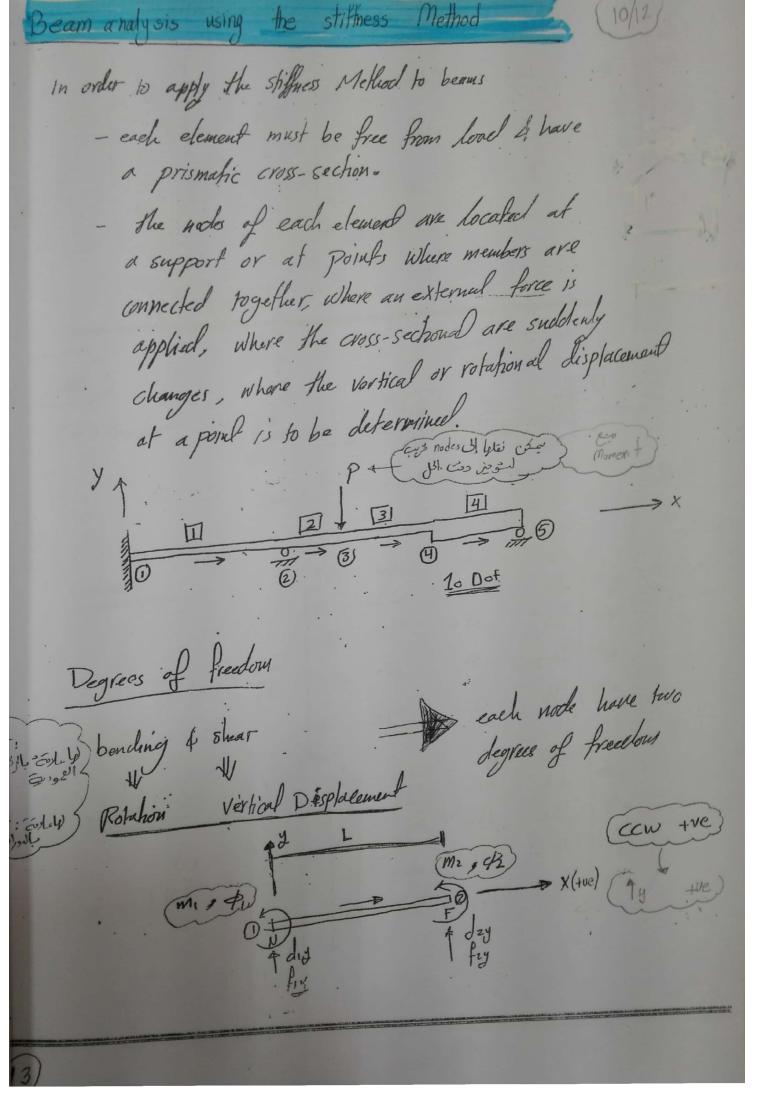
مشترك	di=??
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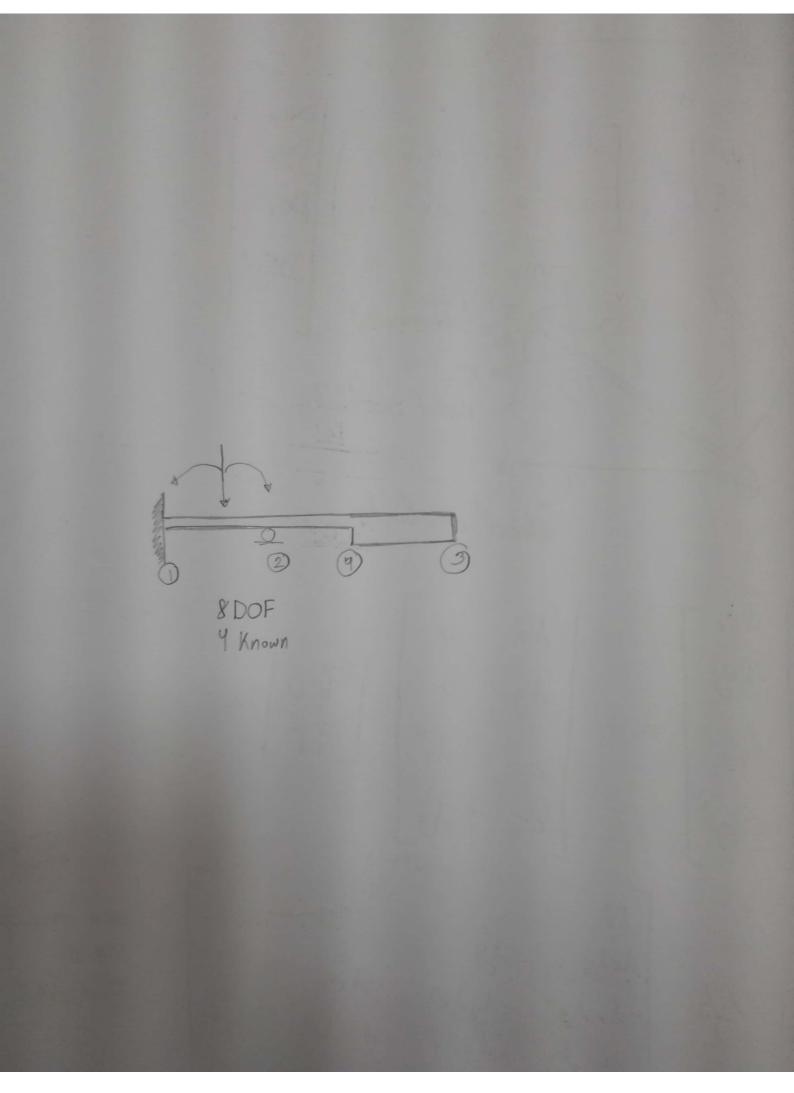
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256	4.2		0	_25.4	-19.2	0	1
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-25.4	-19.2	-25.4	19.2	33.3+25.4	0		
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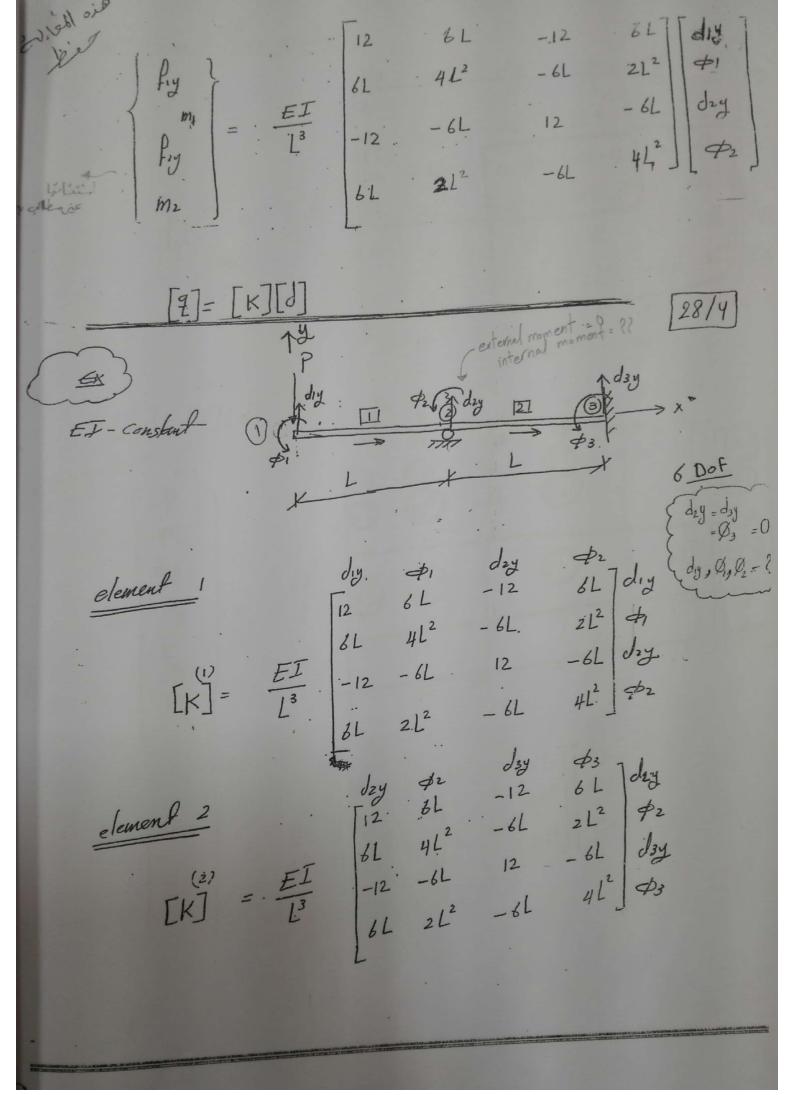
· Global matrix - DoF. sie

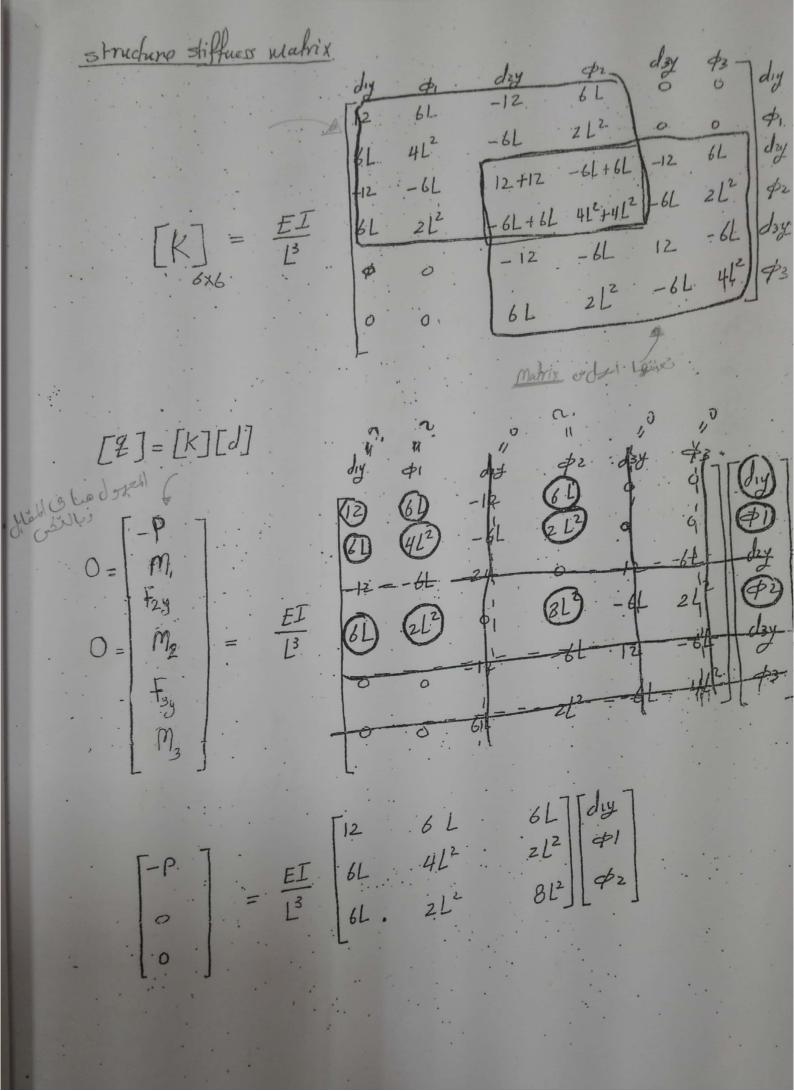


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$$A_{1} = \frac{-7 \rho l^{3}}{12 E I}$$

$$A_{1} = \frac{3 \rho l^{2}}{4 E I}$$

$$A_{2} = \frac{\rho l^{2}}{4 E I}$$

$$A_{3} = \frac{E I}{2}$$

$$A_{4} = \frac{E I}{4 E I}$$

$$A_{5} = \frac{E I}{4 E I}$$

$$A_{1} = \frac{E I}{4 E I}$$

$$A_{2} = \frac{E I}{4 E I}$$

$$A_{3} = \frac{E I}{2} P$$

$$A_{4} = \frac{E I}{4 E I}$$

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$$A_{8} = \frac{E I}{4 E I}$$

$$A_{1} = \frac{E I}{4 E I}$$

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$$A_{3} = \frac{E I}{4 E I}$$

$$A_{4} = \frac{E I}{4 E I}$$

$$A_{5} = \frac{E I}{4 E I}$$

$$A_{6} = \frac{E I}{4 E I}$$

$$A_{1} = \frac{E I}{4 E I}$$

$$A_{2} = \frac{E I}{4 E I}$$

$$A_{3} = \frac{E I}{4 E I}$$

$$A_{4} = \frac{E I}{4 E I}$$

$$A_{5} = \frac{E I}{4 E I}$$

$$A_{6} = \frac{E I}{4 E I}$$

$$A_{1} = \frac{E I}{4 E I}$$

$$A_{2} = \frac{E I}{4 E I}$$

$$A_{3} = \frac{E I}{4 E I}$$

$$A_{4} = \frac{E I}{4 E I}$$

$$A_{5} = \frac{E I}{4 E I}$$

$$A_{6} = \frac{E I}{4 E I}$$

$$A_{7} = \frac{E I}{4 E I}$$

$$A_{8} = \frac{E I}{4 E I}$$

$$A_{1} = \frac{E I}{4 E I}$$

$$A_{2} = \frac{E I}{4 E I}$$

$$A_{3} = \frac{E I}{4 E I}$$

$$A_{4} = \frac{E I}{4 E I}$$

$$A_{5} = \frac{E I}{4 E I}$$

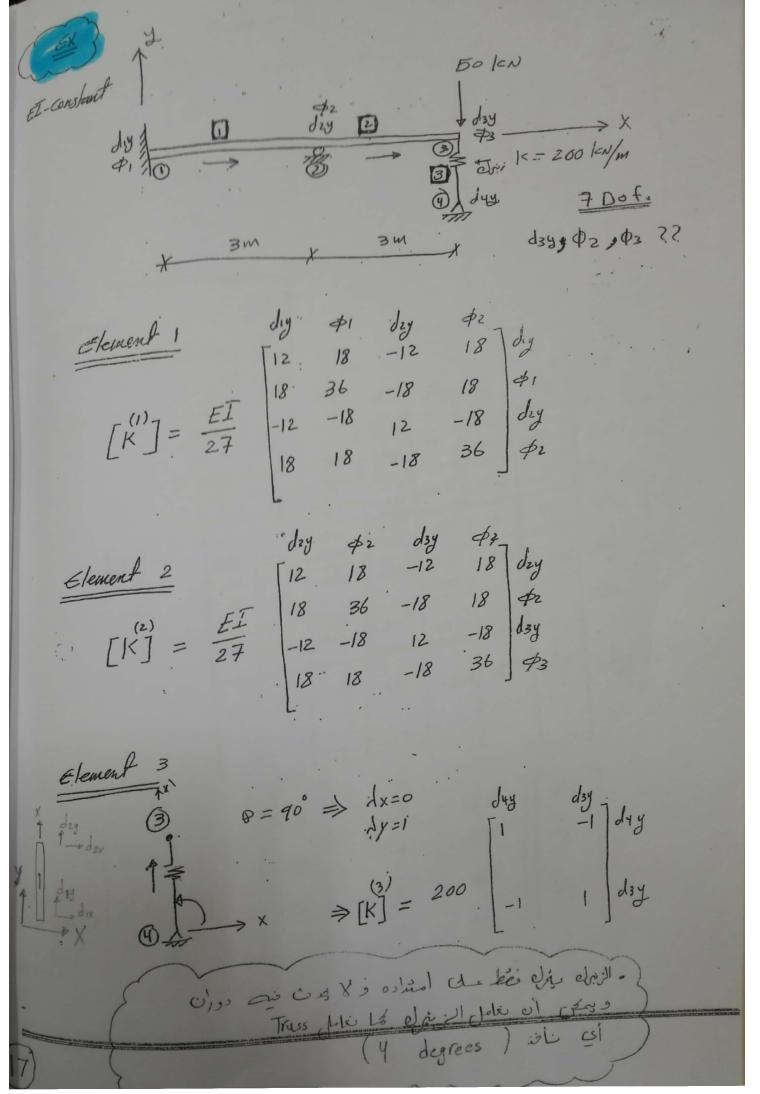
$$A_{6} = \frac{E I}{4 E I}$$

$$A_{7} = \frac{E I}{4 E I}$$

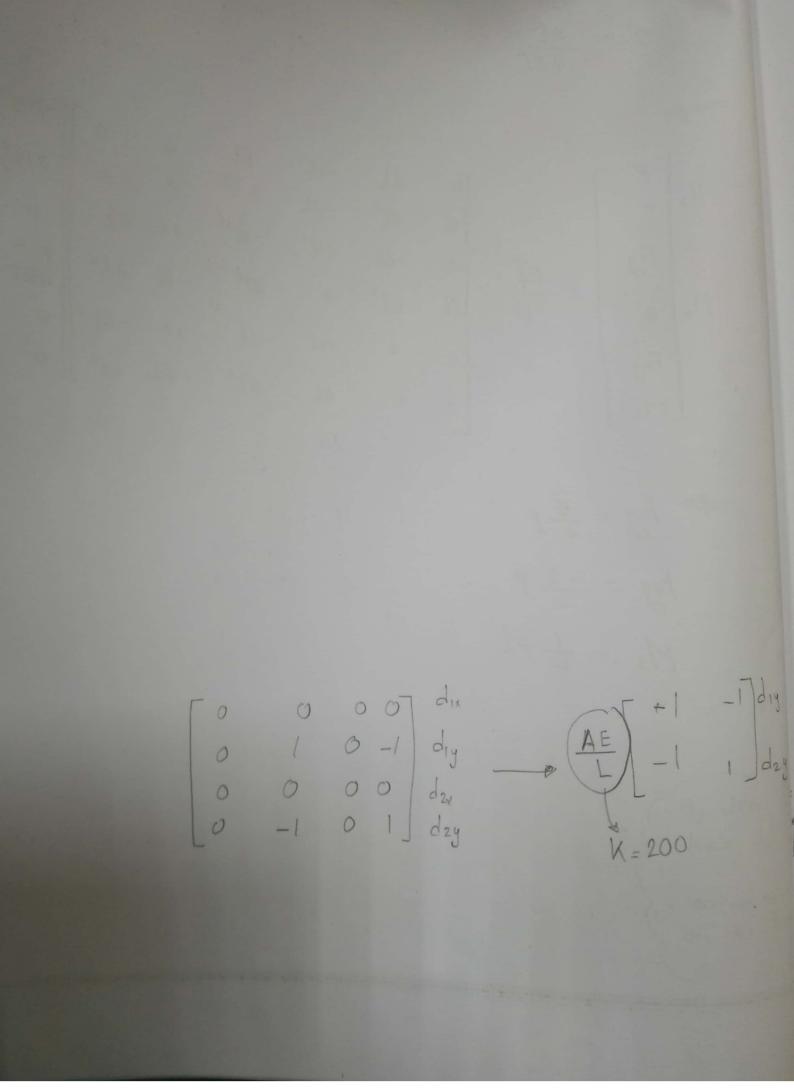
$$A_{1} = \frac{E I}{4 E I}$$

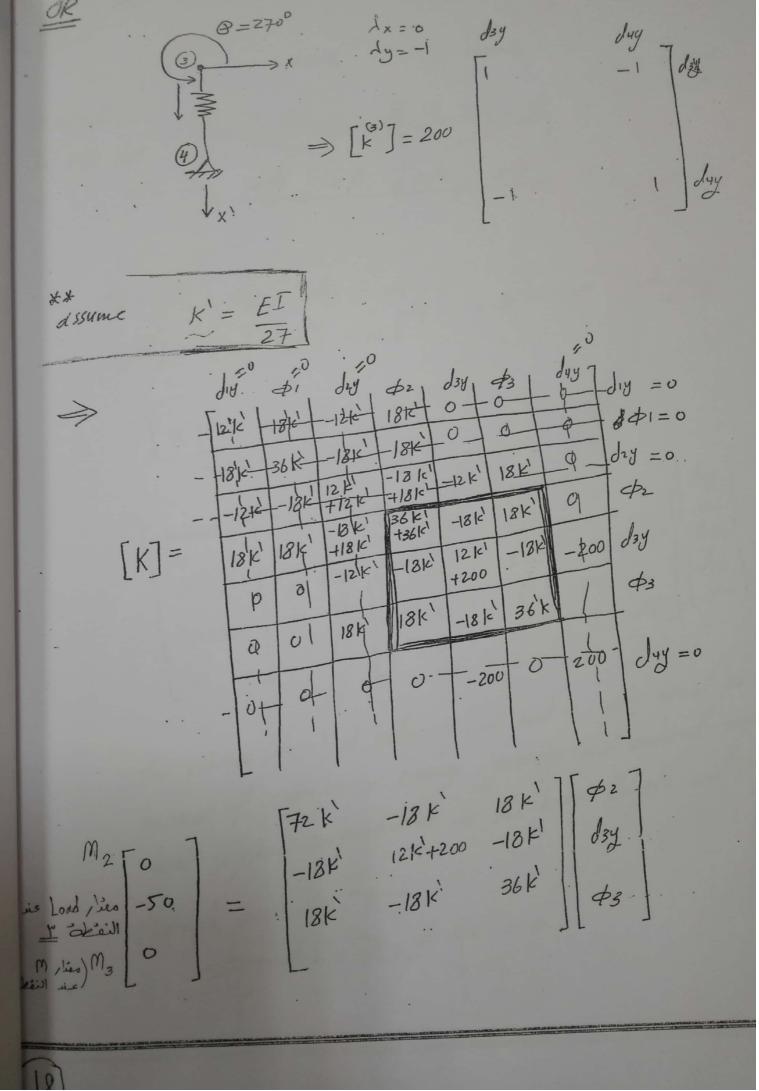
$$A_{1} = \frac{E I}{4 E I}$$

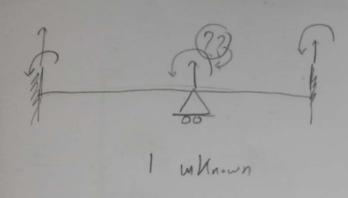
$$A_{2} = \frac{E I}{4$$

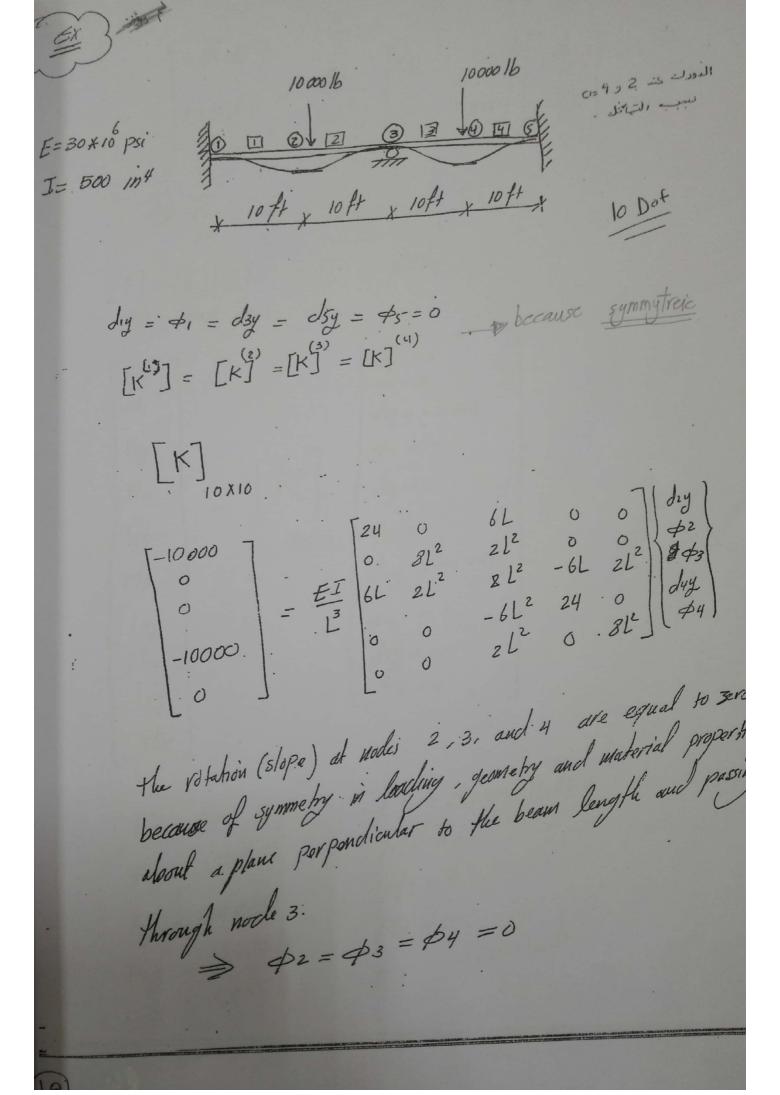


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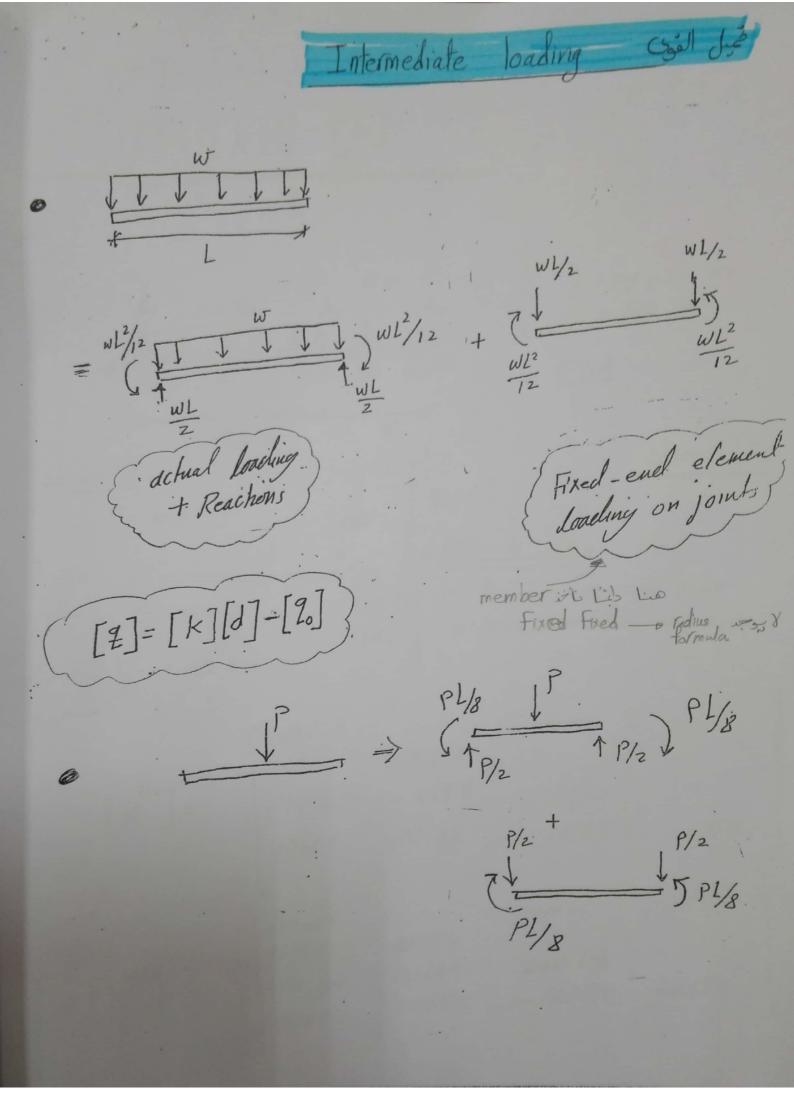


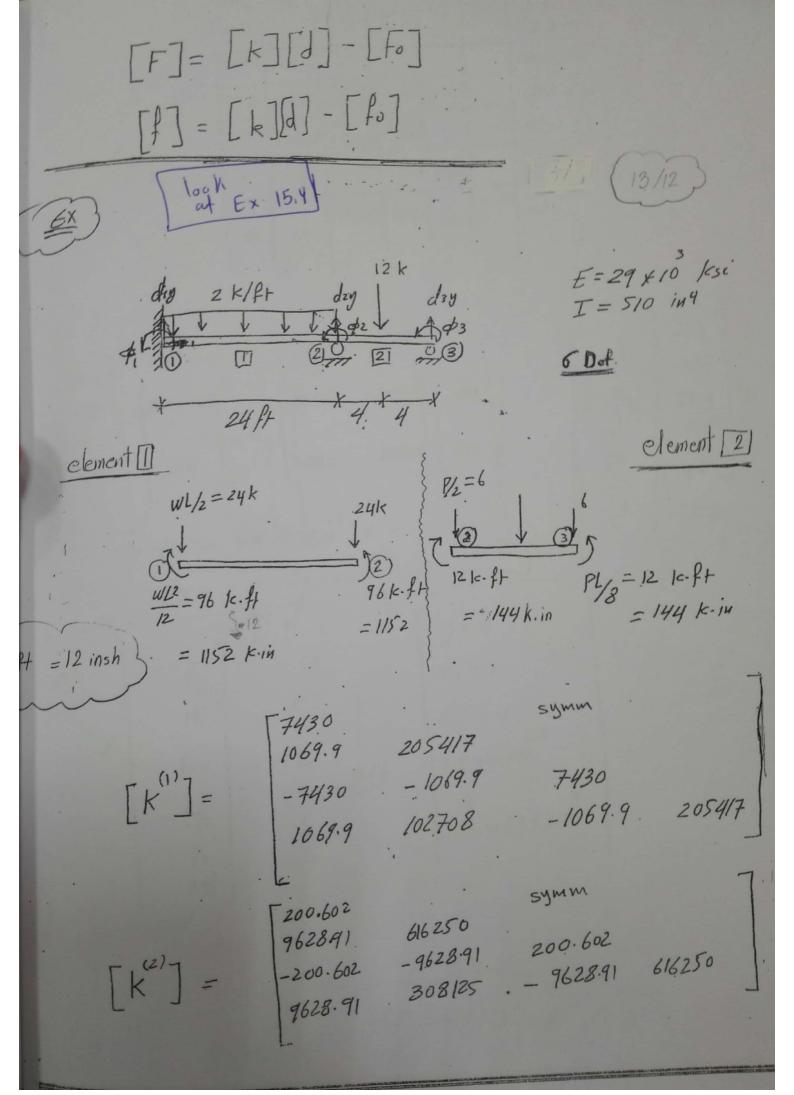


$$\begin{bmatrix}
-10000 \\
-10000
\end{bmatrix} = \underbrace{EI}_{120^3} \begin{bmatrix} 24 \\
0 \\
24 \end{bmatrix} \begin{bmatrix} dy \\
dy \\
0 \\
24 \end{bmatrix}$$

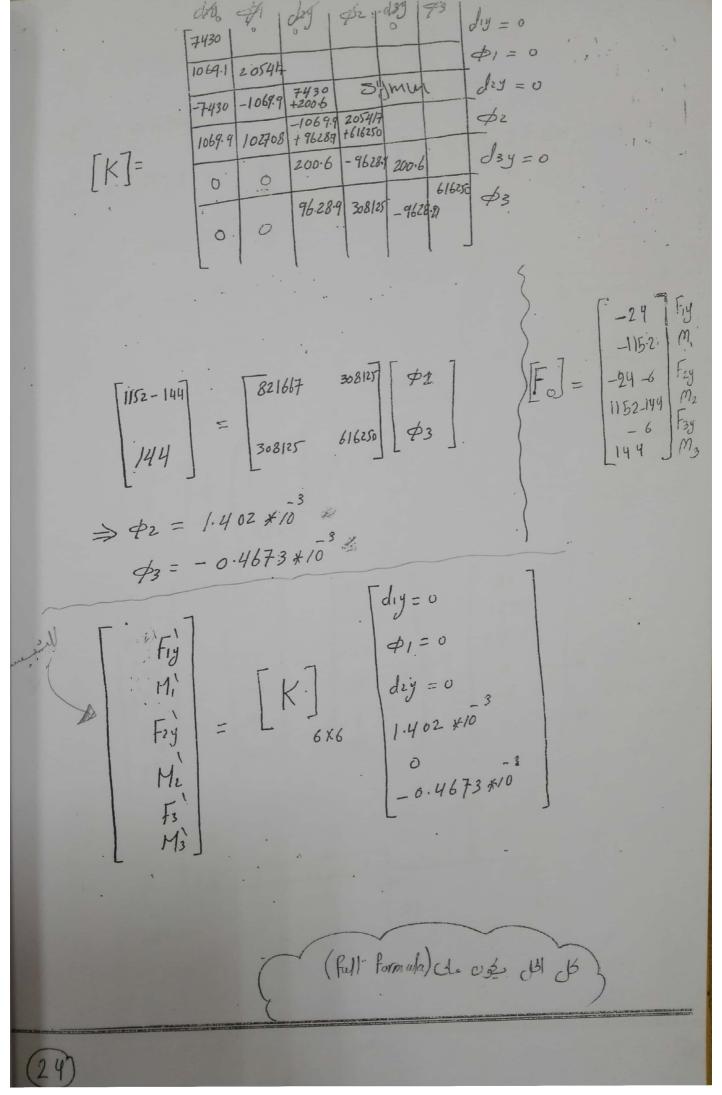
$$\begin{bmatrix}
4 \\
19x \\
19x$$

 $\begin{cases}
f_{iy} \\
M_{i}
\end{cases} = \underbrace{EI}_{12} \begin{cases}
6L & -12 & 6L \\
4L^{2} & -6L & 2L^{2}
\end{cases} \begin{cases}
d_{iy} = 0 \\
4j = 0
\end{cases}$ $d_{2y} = -0.048$ $d_{2y} = -0.048$ $d_{2y} = -0.048$ ⇒: fiy = : 5000 16 M1 = 25000 16.ff · fry = - 5000 16. M2 = 25000 16. ft bean or de local force 3. de

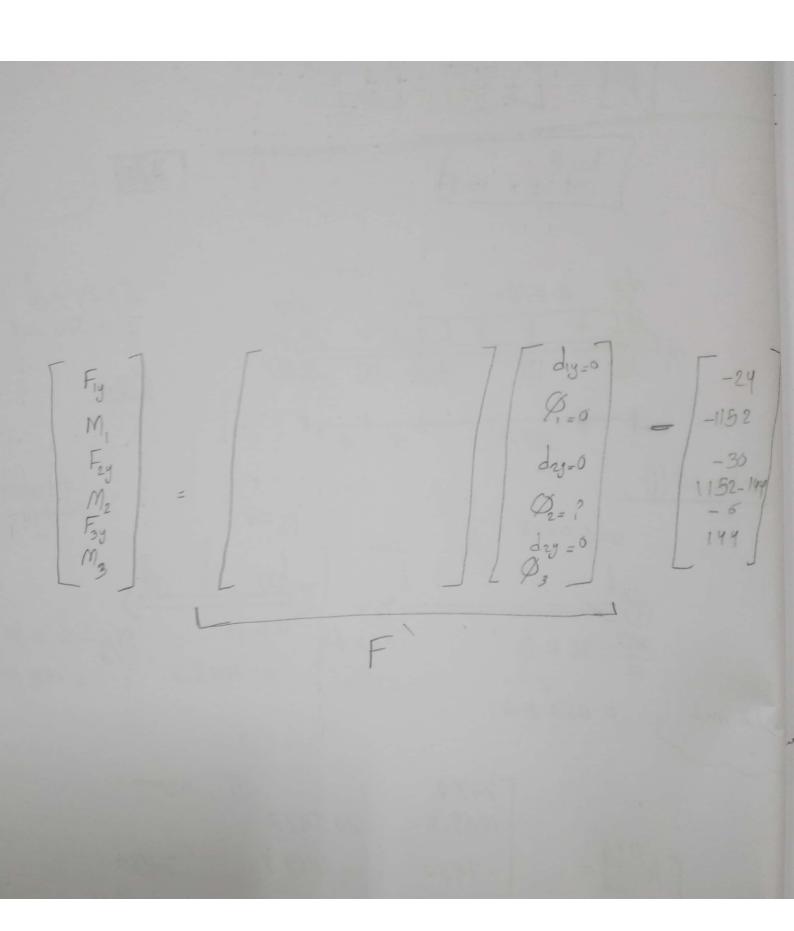




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Fy =
$$1069.9 \times 1.402 \times 10^{3} = 1.5 \text{ K}$$

Fy = 102708×9

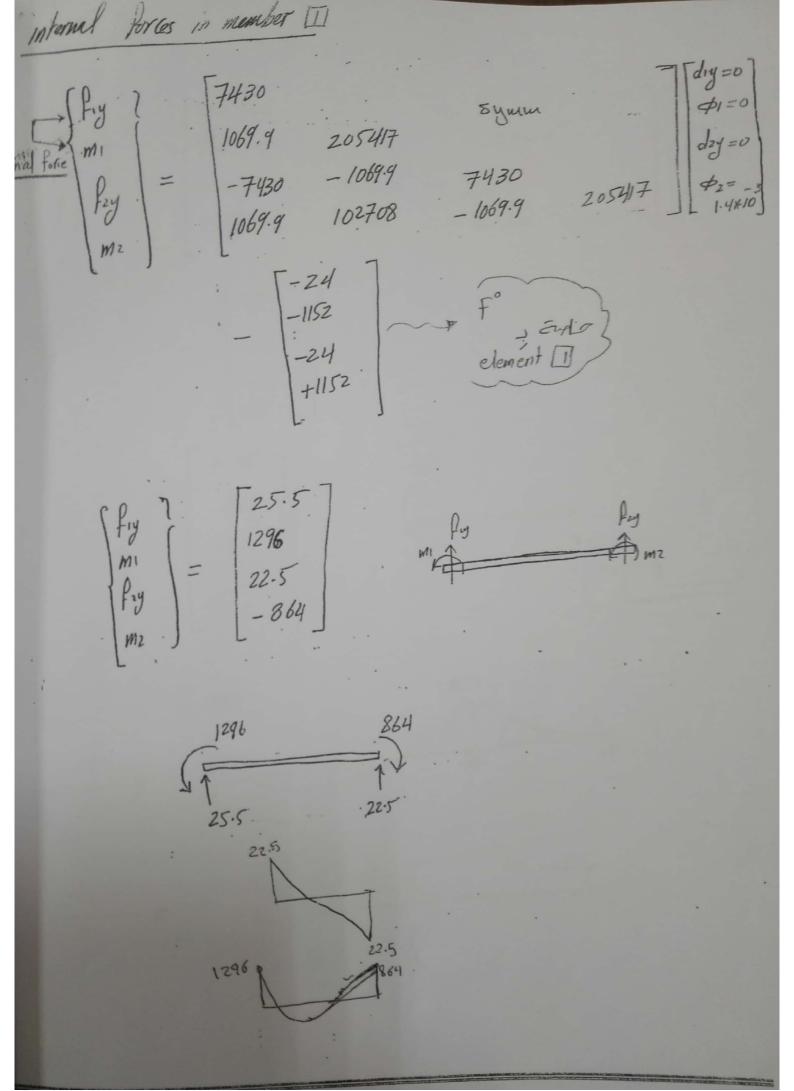
Fy = 8559×9

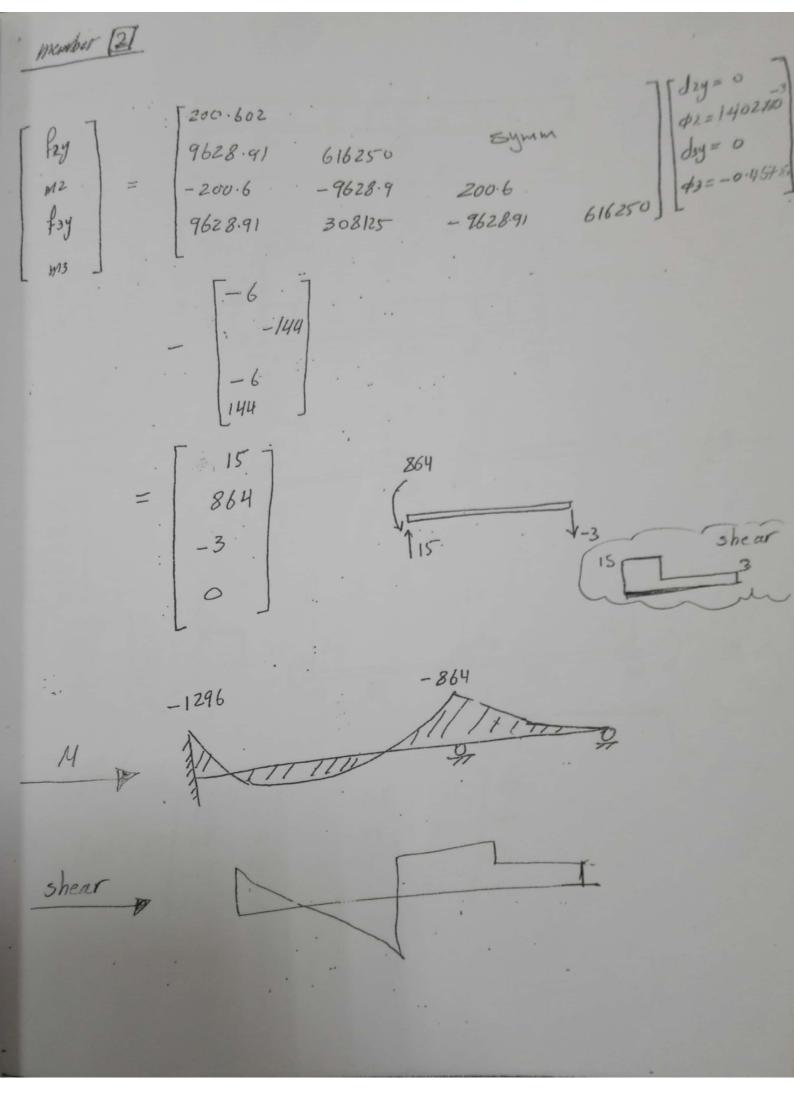
Fy = 1008×100

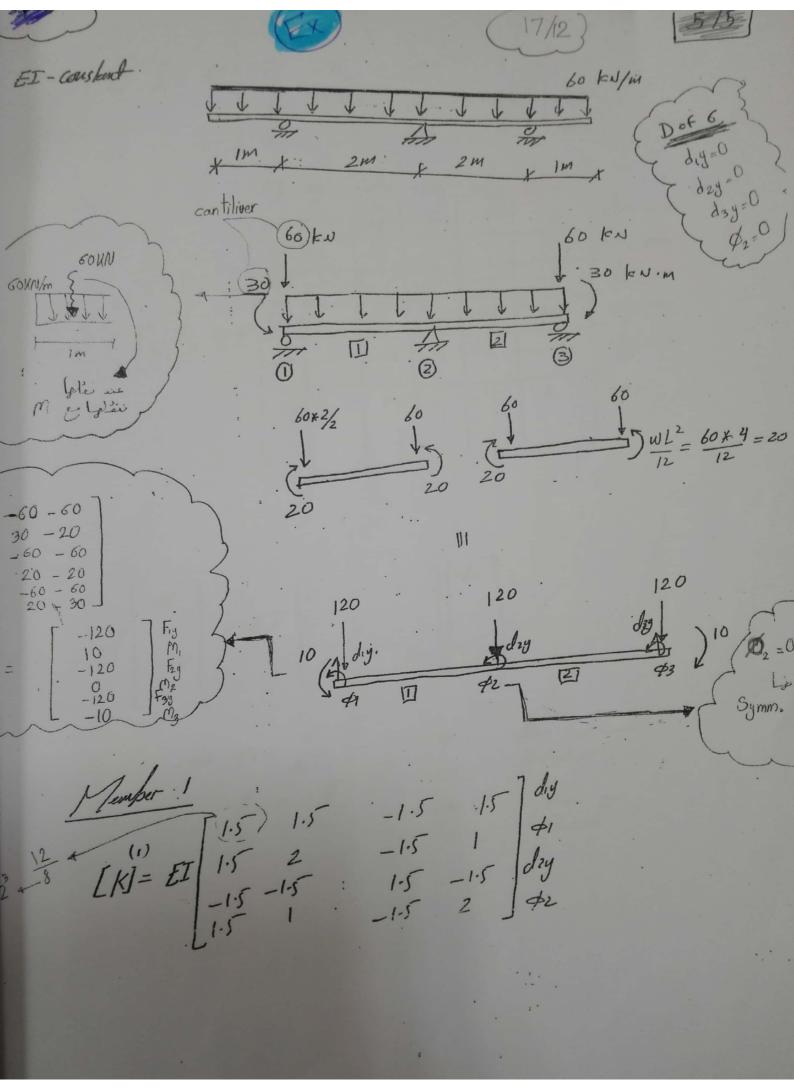
Fy = -9×9

Fy = $-9 \times$

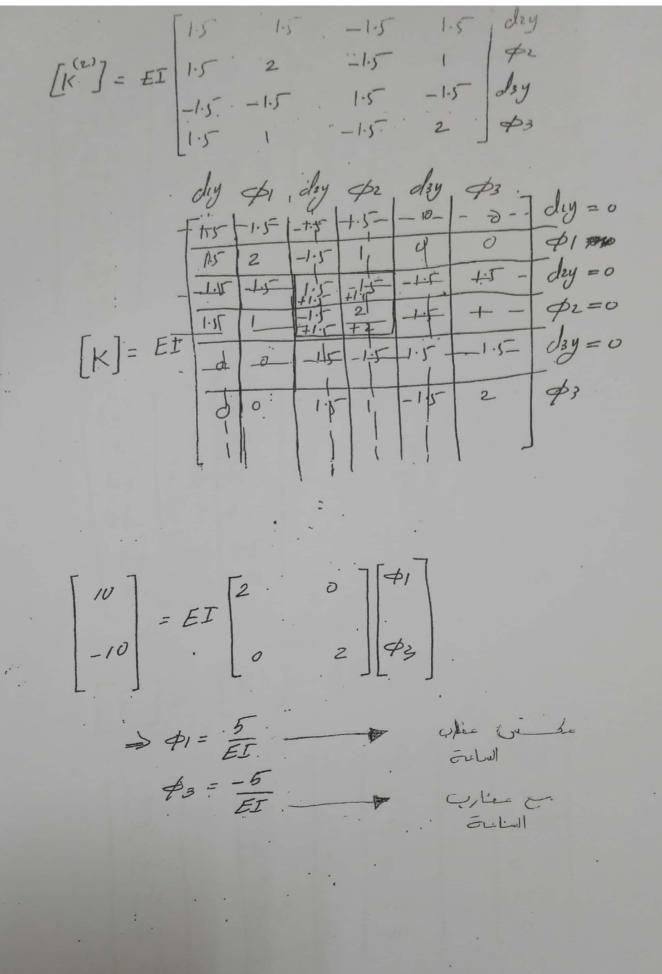
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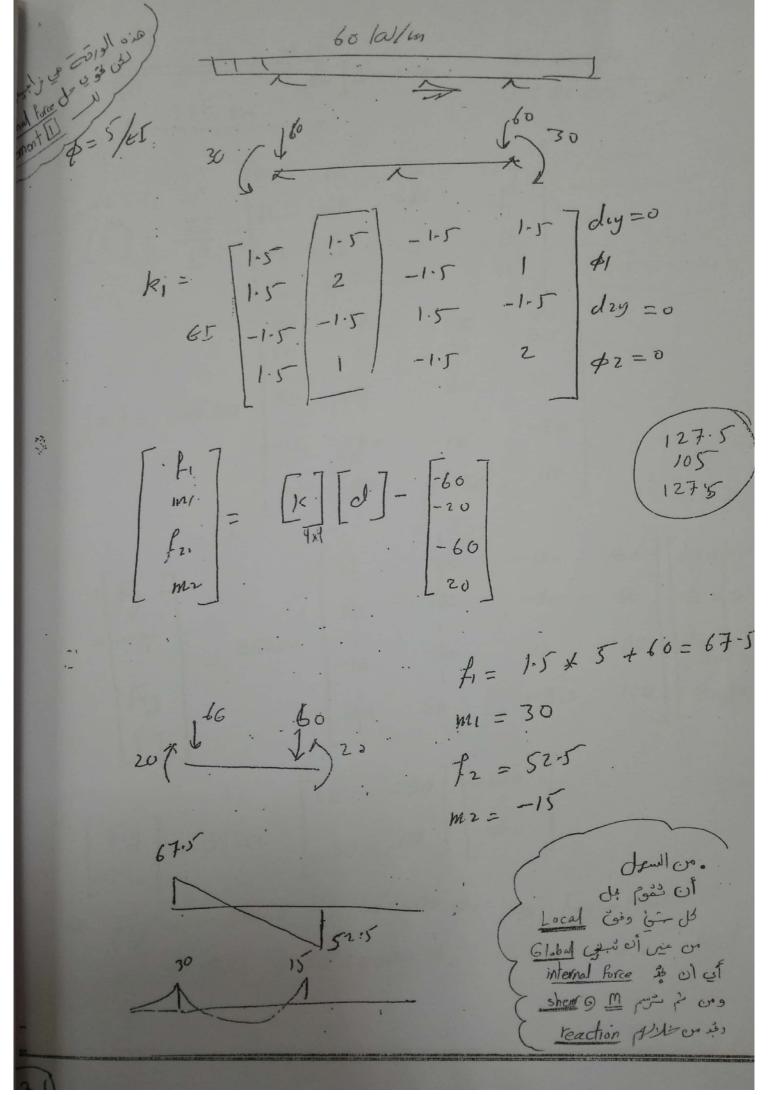
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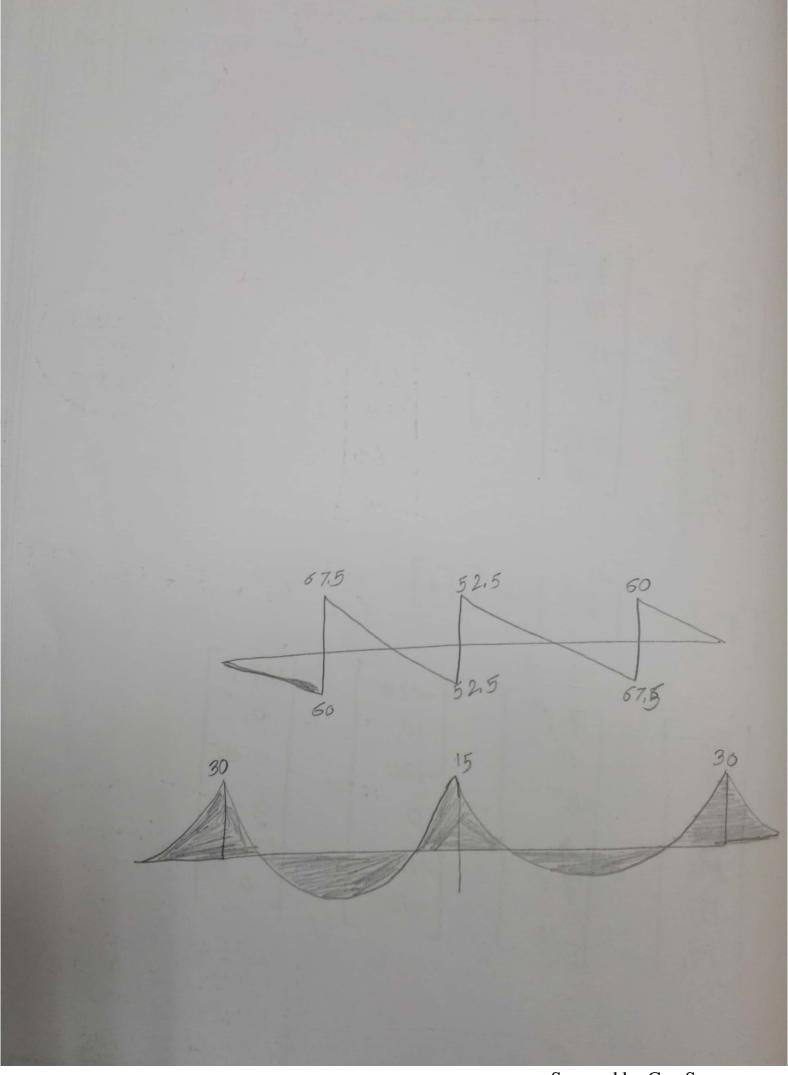
$$\begin{bmatrix} F_{1}y \\ M_{1} \\ F_{2}y \\ M_{2} \\ \end{bmatrix} = EI \begin{bmatrix} 1.5 & 1.5 & -1.5 & 1.5 & 0 & 0 \\ 1.5 & -1.5 & 1 & 0 & 0 & 0 \\ 1.5 & -1.5 & 1 & 0 & 0 & -1.5 & 1 \\ 0 & 0 & -1.5 & -1.5 & 1 & -1.5 & 1 \\ 0 & 0 & 1.5 & 1 & -1.5 & 1 & -1.5 \\ 0 & 0 & 1.5 & 1 & -1.5 & 2 \end{bmatrix} \begin{bmatrix} 0 \\ -5/6 \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

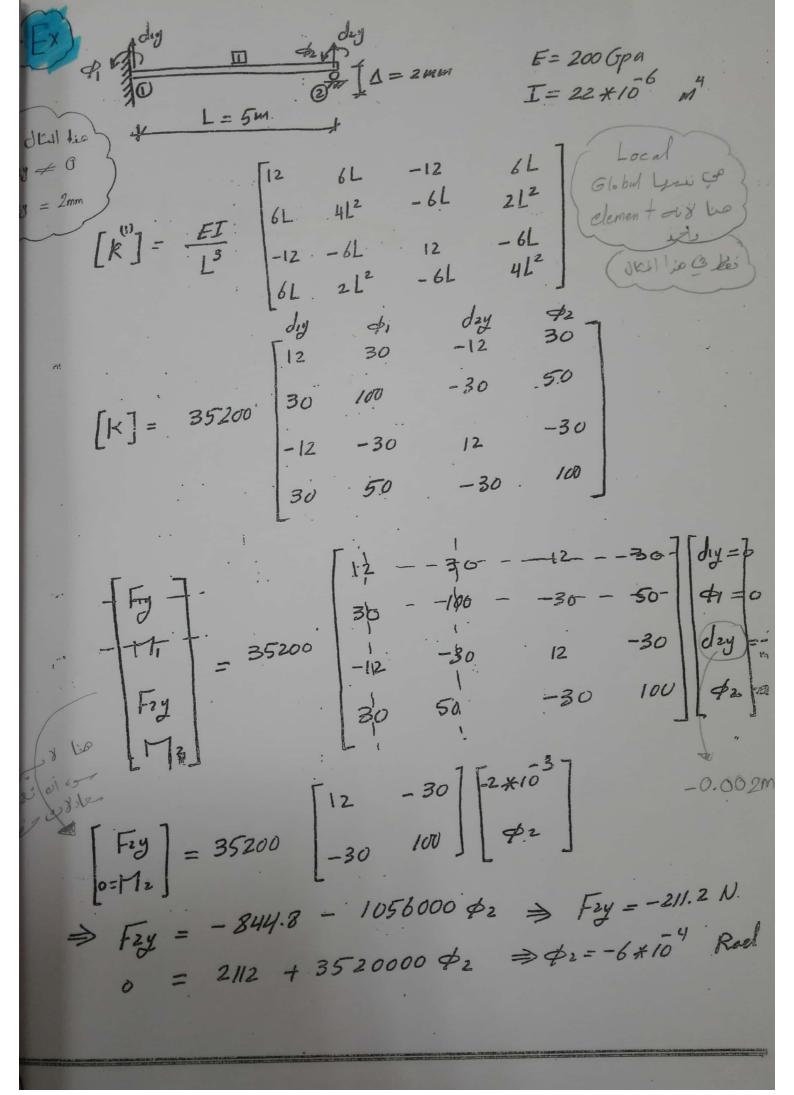
$$\begin{bmatrix} F_{2}y \\ M_{3} \\ \end{bmatrix} = \begin{bmatrix} 7.5 \\ 10 \\ -120 \\ 0 \\ -120 \\ -10 \end{bmatrix} \begin{bmatrix} -120 \\ 10275 \\ 0 \\ 1275 \\ 0 \end{bmatrix}$$

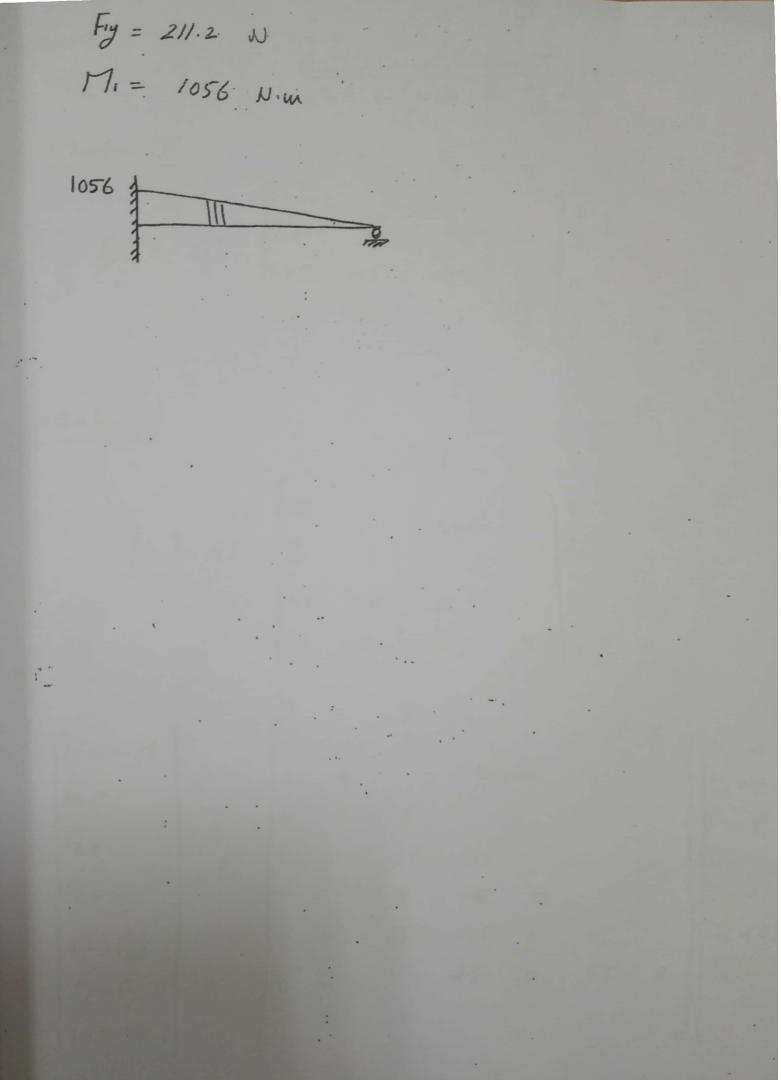
$$\begin{bmatrix} F_{2}y \\ M_{2} \\ F_{3}y \\ M_{3} \end{bmatrix} = \begin{bmatrix} 7.5 \\ 10 \\ -120 \\ -120 \\ -10 \end{bmatrix} \begin{bmatrix} -120 \\ 10275 \\ 0 \\ 1275 \\ 0 \end{bmatrix}$$

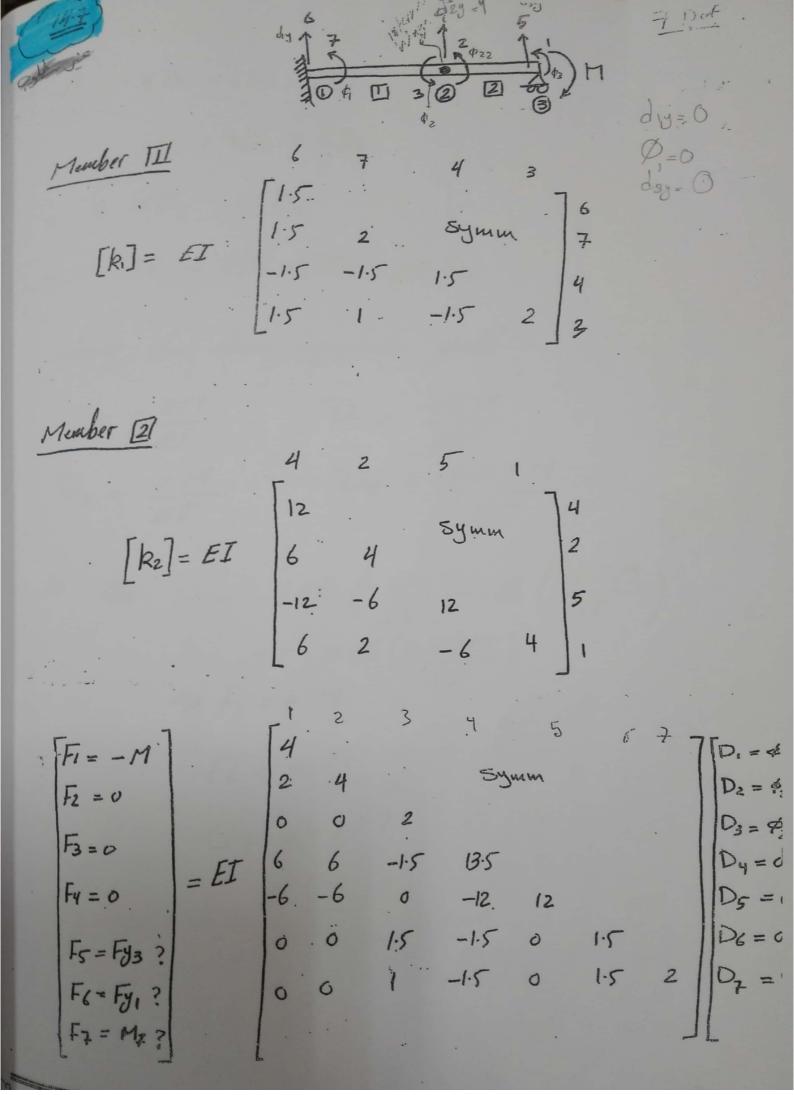


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$$\frac{1}{EE} = 4D_1 + 2D_2 + 6D_4$$

$$= 2D_1 + 4D_2 + 6D_4$$

$$0 = 2D_3 - 1.5 D_4$$

$$0 = 6D_1 + 6D_2 - 1.5 D_3 + 13.5 D_4$$
Solving the above equations yields
$$D_1 = -\frac{3M}{EI} \qquad D_2 = -\frac{2.5M}{EI}$$

$$D_3 = \frac{2M}{EI} \qquad D_4 = \frac{2.667M}{EI}$$

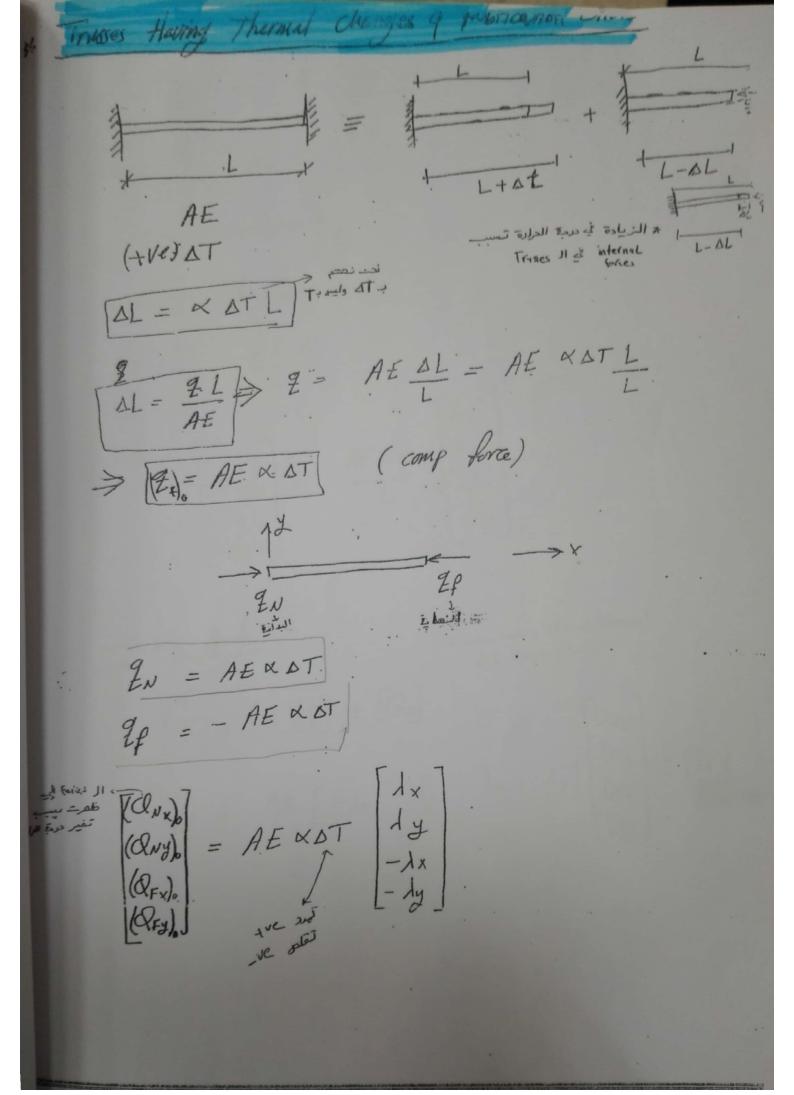
$$\Rightarrow F_5 = -6EI \left(-\frac{3M}{EI}\right) - 6EI\left(\frac{-25.M}{EI}\right)$$

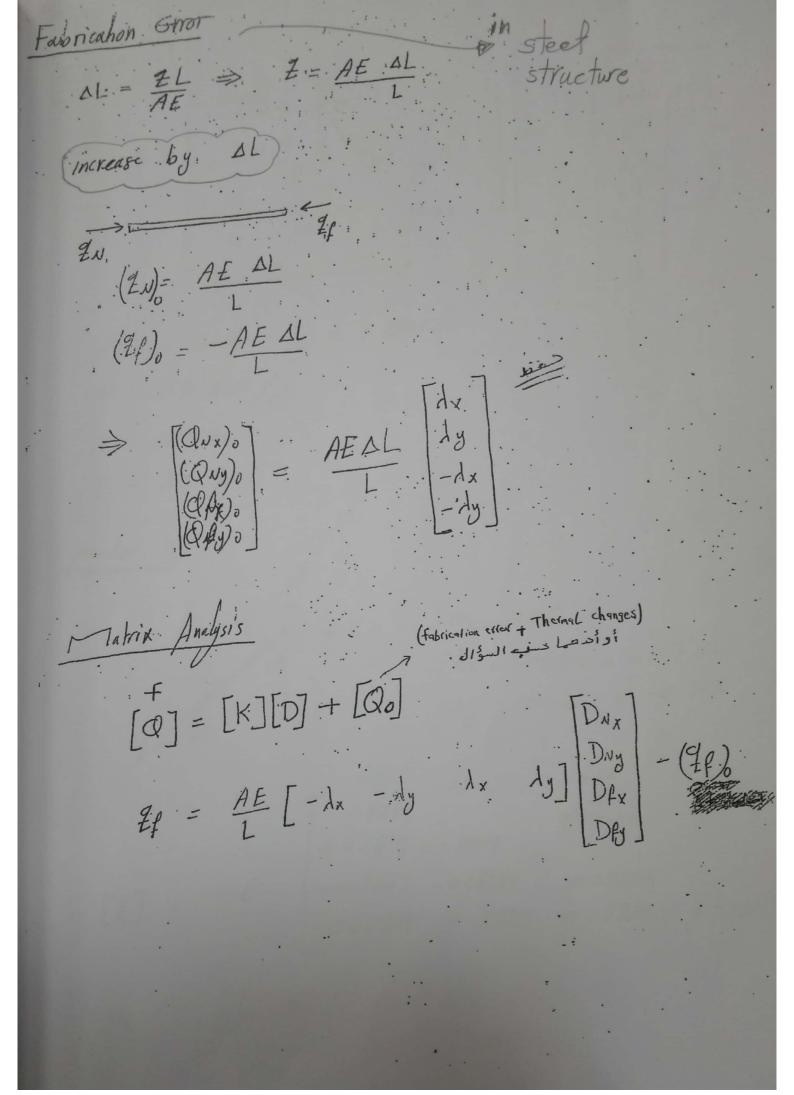
$$\Rightarrow F_5 = 0M$$

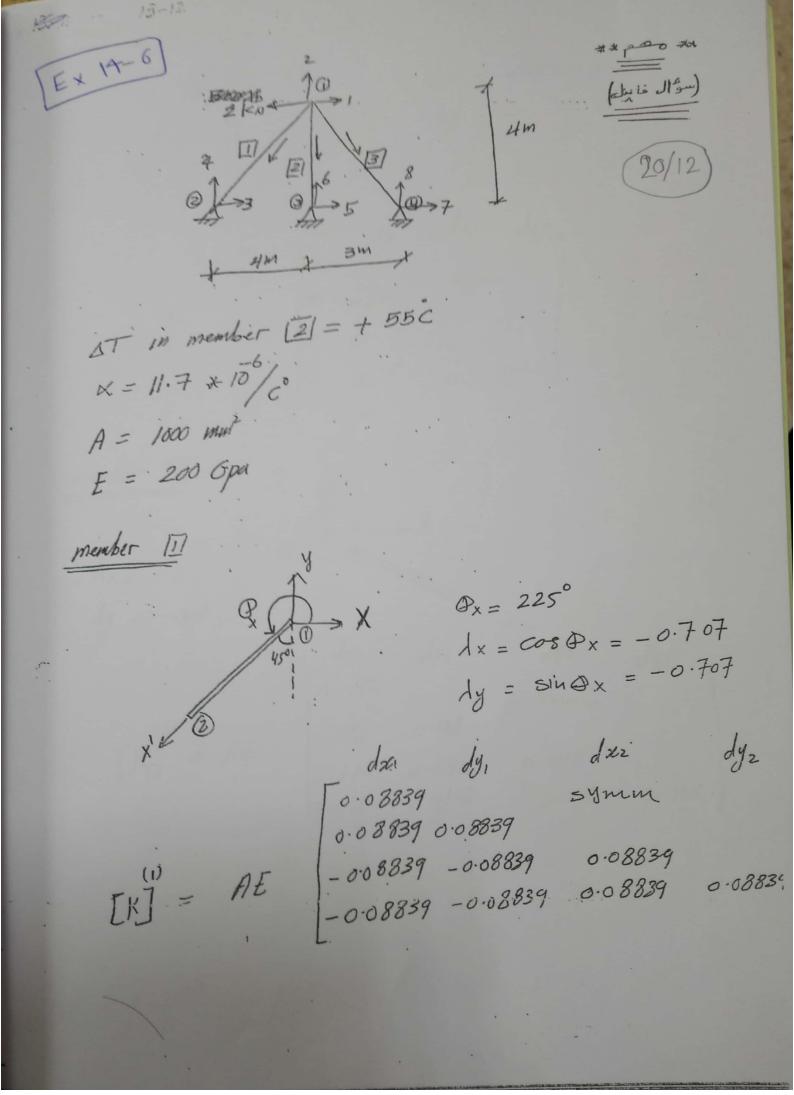
$$F_6 = -M$$

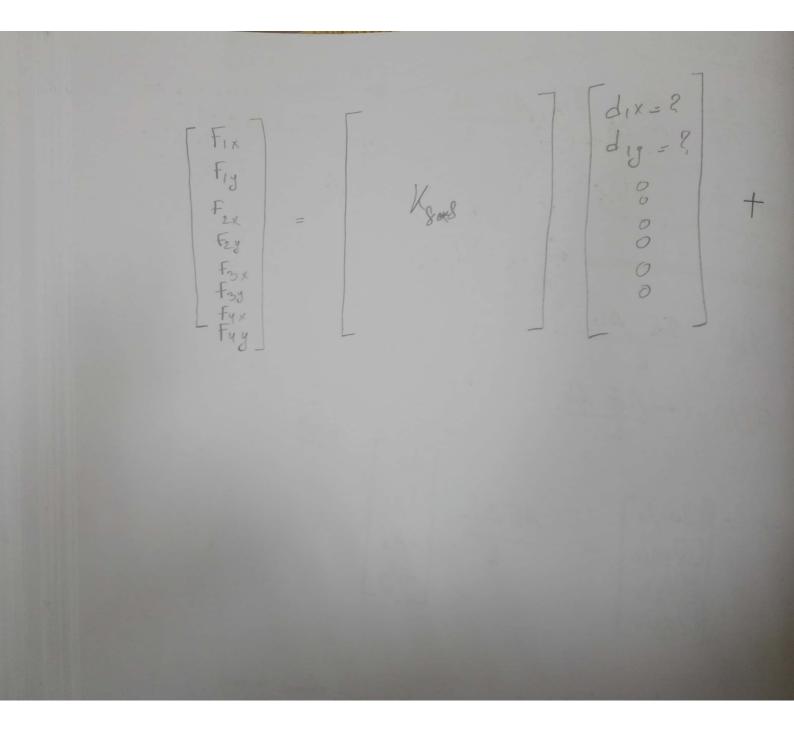
$$Q_7 = -2M$$

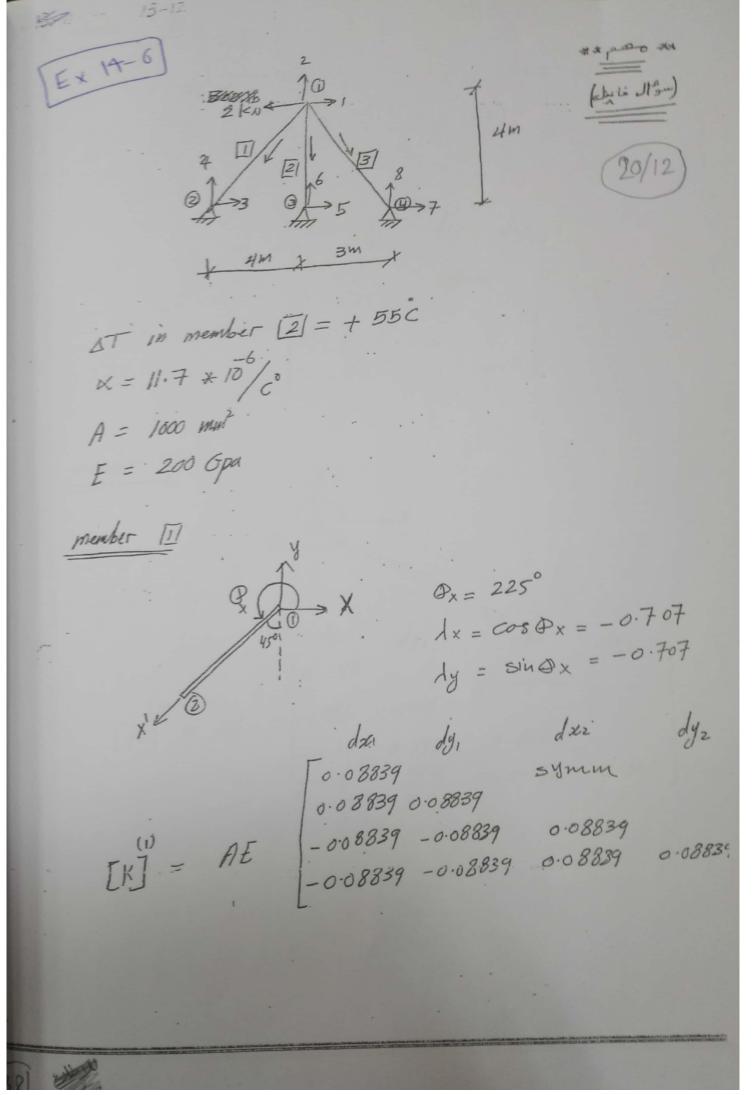
(14.8) Trasses Having Thermal changes and Fabricatio Errors



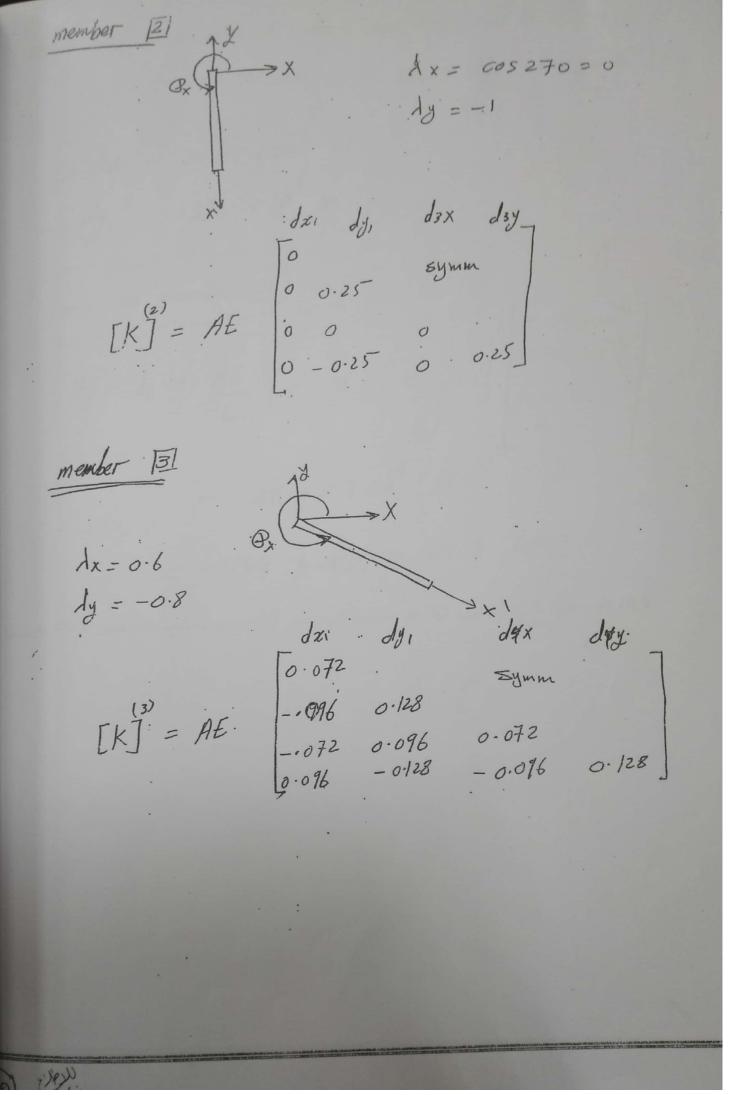








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$$= \frac{-2}{0.16037} \frac{AE}{AE} \frac{dz}{dz} + \frac{100}{0.00761} \frac{1}{AE} = \frac{100}{0.00761} \frac{1}{AE} = \frac{100}{0.00761} \frac{1}{AE}$$

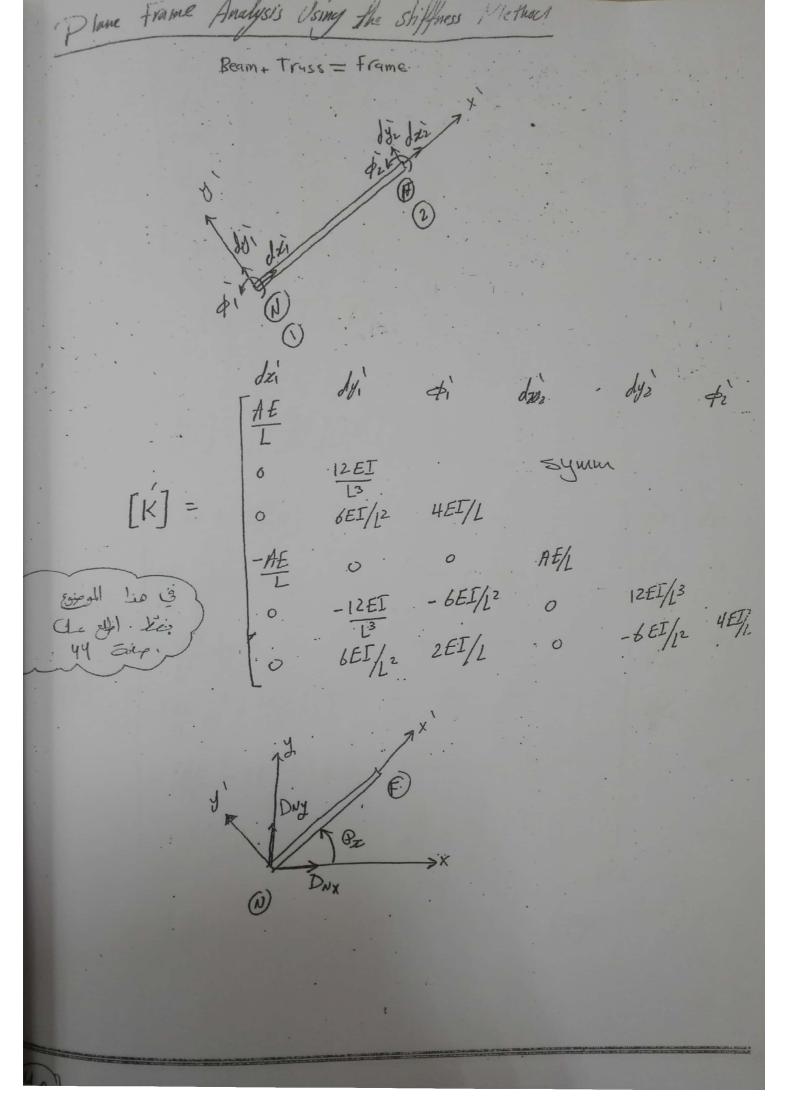
$$\Rightarrow dz_1 = \frac{3.119 \times 10^6}{0.00761} \frac{1}{AE}$$

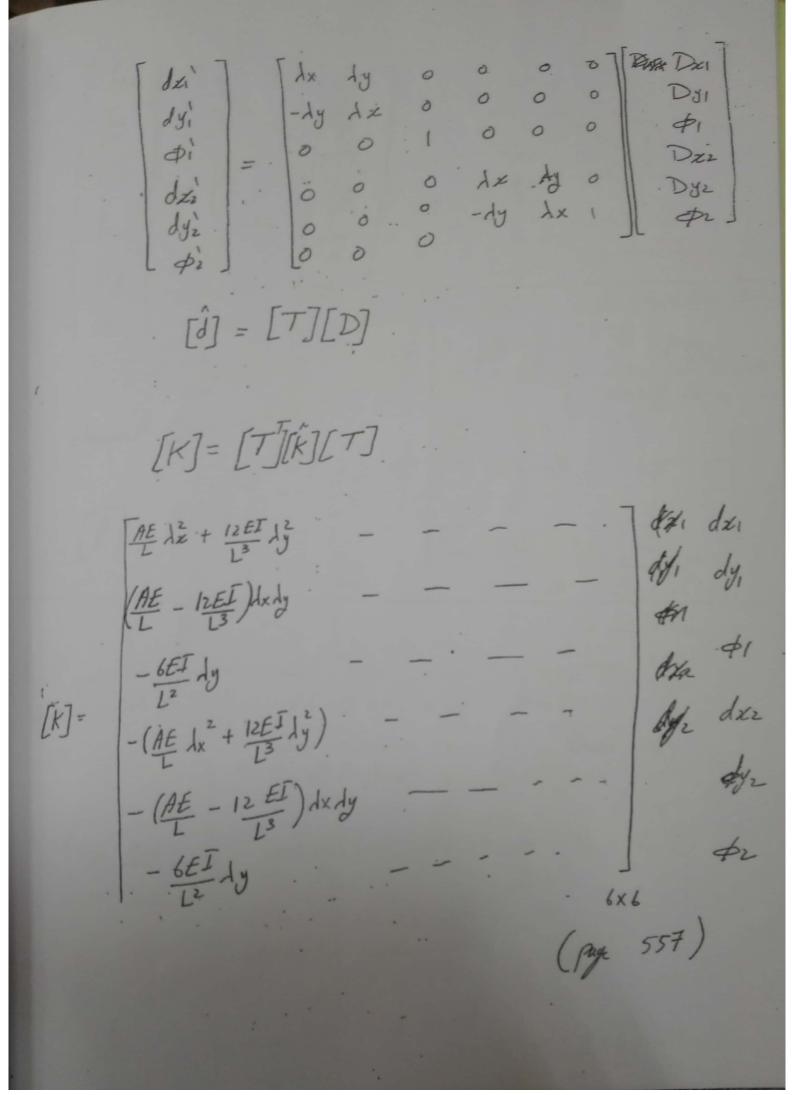
$$\Rightarrow dz_1 = \frac{AE}{1.380} \times \frac{10^6}{10} \frac{1}{100}$$

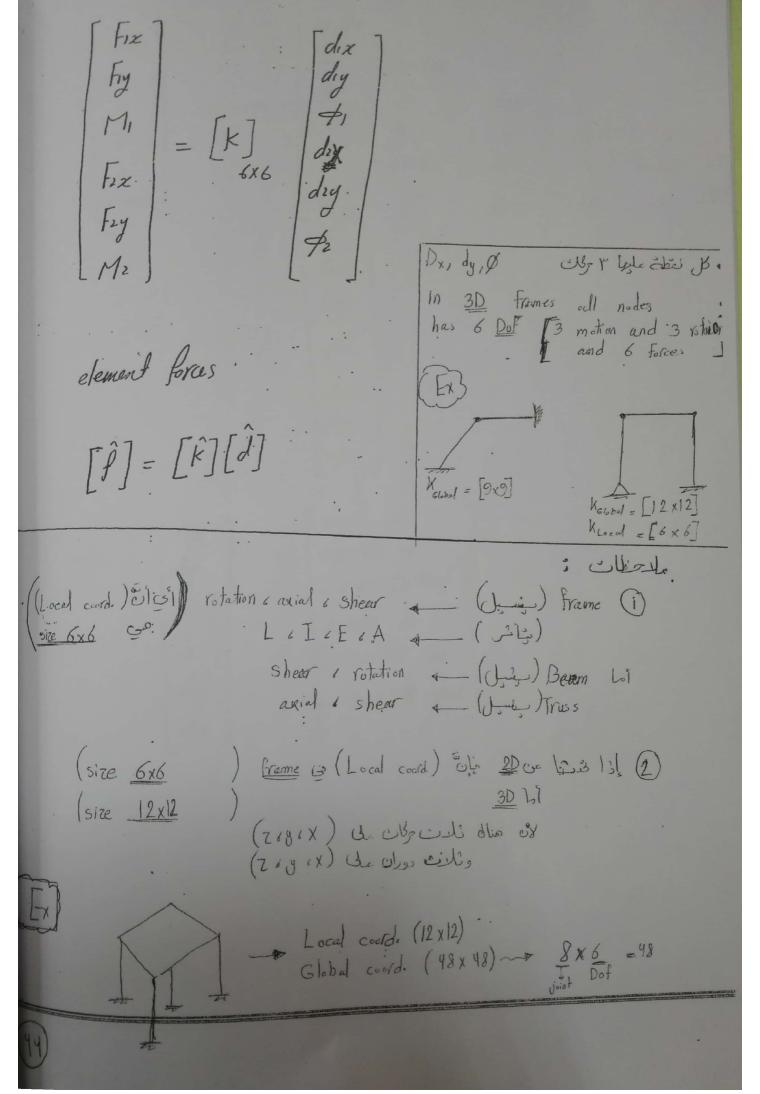
$$\Rightarrow dz_1 = \frac{AE}{1.380} \times \frac{10^6}{100} \frac{1}{100}$$

$$\Rightarrow dz_1 = \frac{AE}{1.00761} = \frac{100}{100} = \frac{100}{100}$$

$$\begin{bmatrix} (Q_1)_2 \\ (Q_2)_3 \\ (Q_3)_4 \\ (Q_3)_4 \\ (Q_4)_5 \\ (Q_5)_6 \\ (Q$$



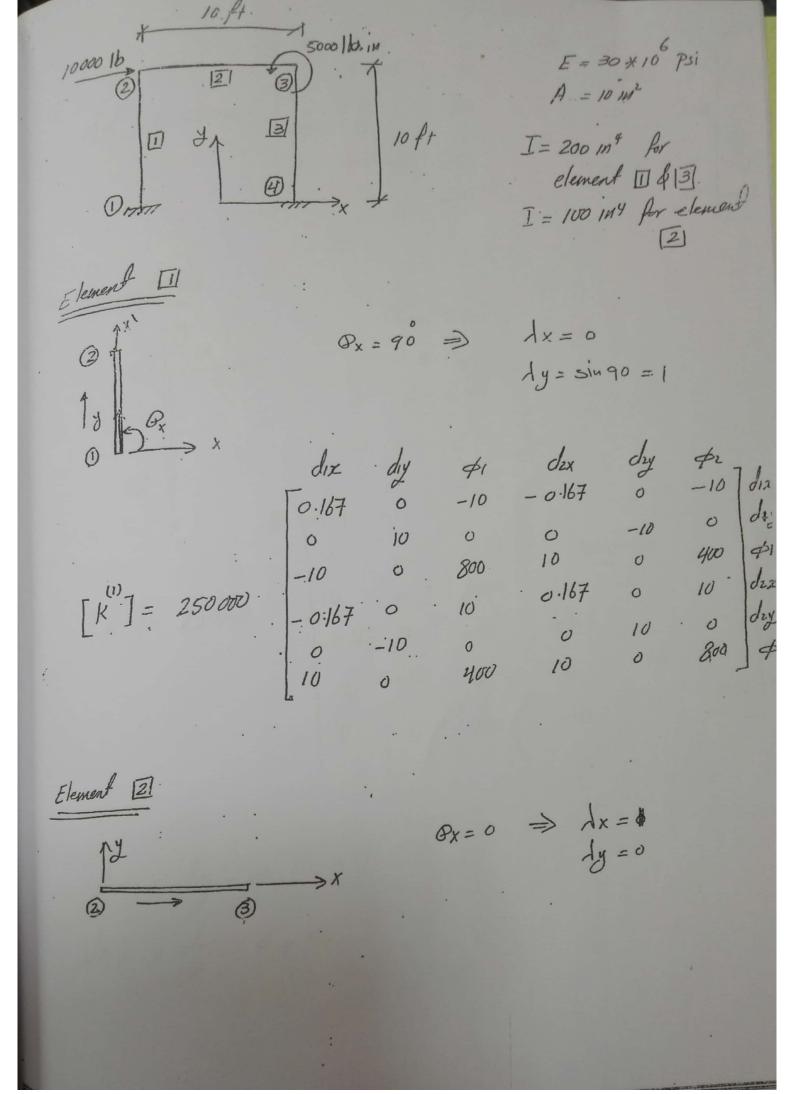


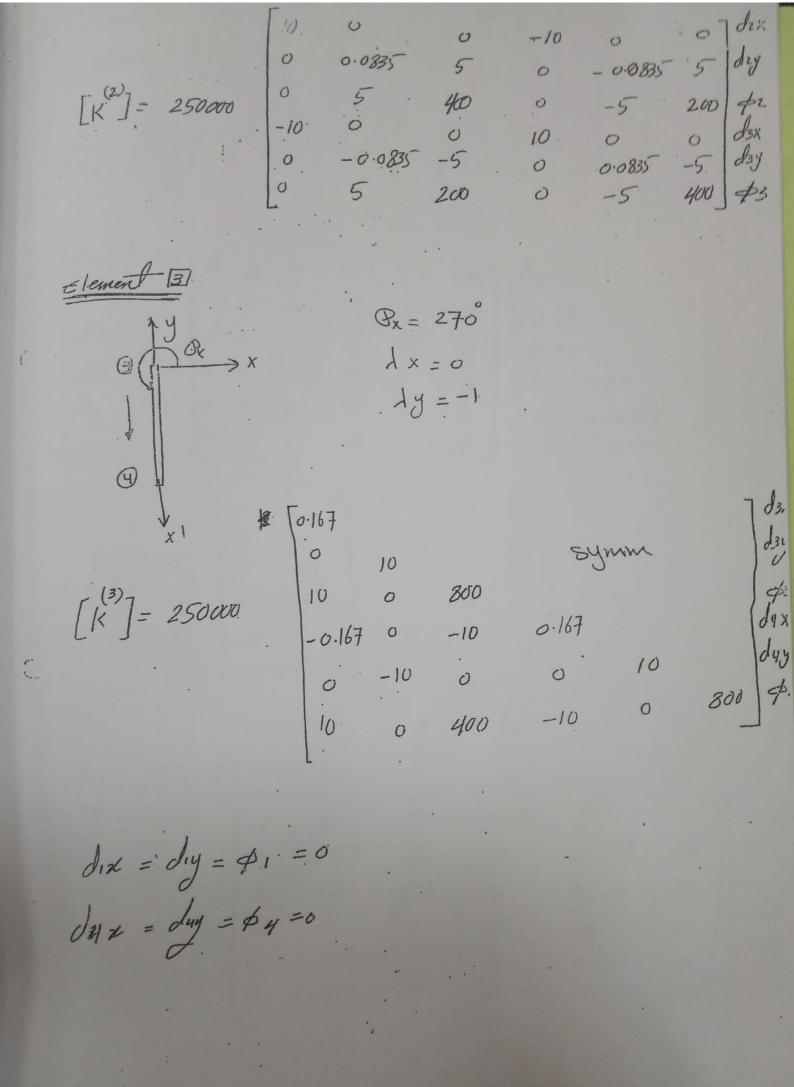


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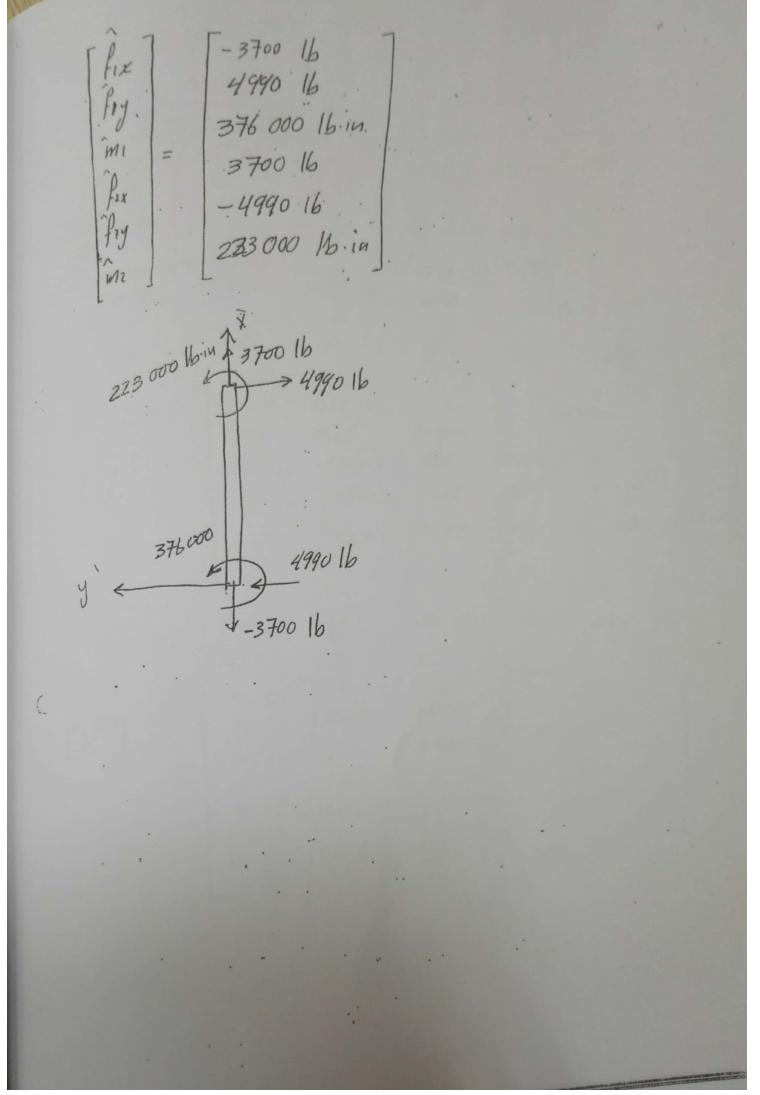
K=12+12 Ø 172

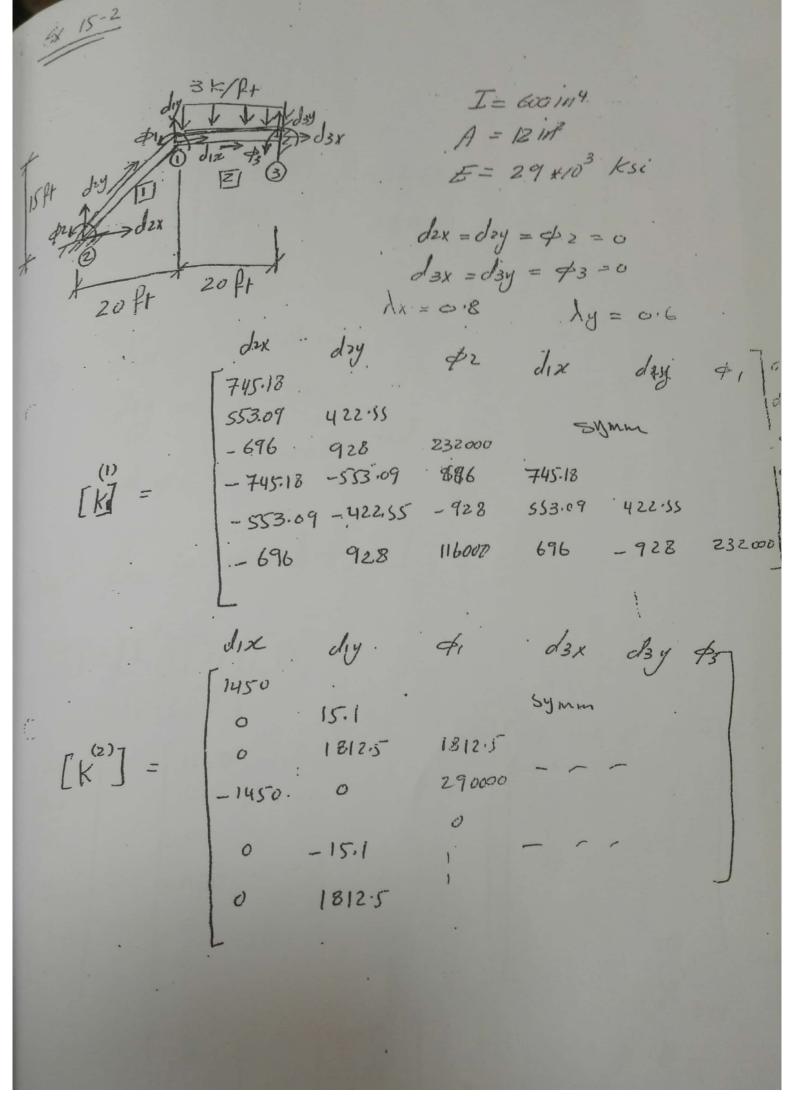
[10000] 0 = 250000 0 0	10.167 0 10.0835 10 5 1200 -10 0 0 0 0.0835 -5 0 5 200	10.167
$\begin{cases} d2x \\ d2y \\ d2 \\ d3x \\ d3y \\ d3y \\ d3y \\ d3y \end{cases}$	dex dey	





$$\begin{array}{c}
| J | = [T][D] \\
| J | = [T][D]$$





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