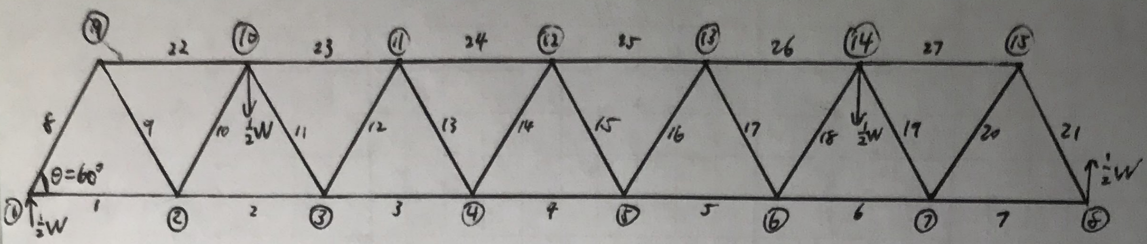
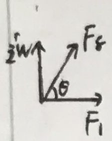
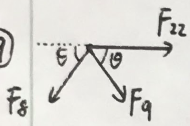


$\theta=60°$, $L=5.5\,in$, $\frac{1}{2}W$ acting at ⑩ and ⑭, Reaction force $\frac{1}{2}W$ acting at ① and ⑧.

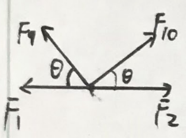
$\Sigma F_y=0=-\frac{1}{2}W-\frac{1}{2}W+2R$, $R=\frac{1}{2}W$, $\sin\theta=\sin60°\approx0.866$, $\cos\theta=\cos60°=0.5$

① 
$\Sigma F_y=0=F_8\sin\theta+\frac{1}{2}W$, $F_8=-\frac{W}{2\sin\theta}$

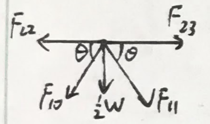
$\Sigma F_x=0=F_1+F_8\cos\theta$, $F_1=-F_8\cos\theta=-\left(-\frac{W}{2\sin\theta}\right)\cdot\cos\theta=\frac{W\cos\theta}{2\sin\theta}$

⑨ 
$\Sigma F_y=0=-F_8\sin\theta-F_9\sin\theta$, $F_9=-F_8=\frac{W}{2\sin\theta}$

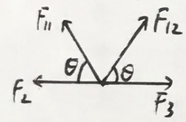
$\Sigma F_x=0=F_{22}+F_9\cos\theta-F_8\cos\theta$, $F_{22}=F_8\cos\theta-F_9\cos\theta=-\frac{W\cos\theta}{2\sin\theta}-\frac{W\cos\theta}{2\sin\theta}=-\frac{W\cos\theta}{\sin\theta}$

② 
$\Sigma F_y=0=F_9\sin\theta+F_{10}\sin\theta$, $F_{10}=-F_9=-\frac{W}{2\sin\theta}$

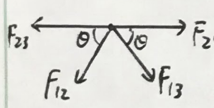
$\Sigma F_x=0=F_2-F_1+F_{10}\cos\theta-F_9\cos\theta$, $F_2=F_1-F_{10}\cos\theta+F_9\cos\theta=\frac{W\cos\theta}{2\sin\theta}+\frac{W\cos\theta}{2\sin\theta}+\frac{W\cos\theta}{2\sin\theta}=\frac{3W\cos\theta}{2\sin\theta}$

⑩ 
$\Sigma F_y=0=-F_{10}\sin\theta-F_{11}\sin\theta-\frac{1}{2}W$, $F_{11}=\frac{1}{\sin\theta}\left(\frac{1}{2}W-\frac{W}{2\sin\theta}\cdot\sin\theta\right)=0$.

$\Sigma F_x=0=F_{23}+F_{11}\cos\theta-F_{22}-F_{10}\cos\theta$, $F_{23}=F_{22}+F_{10}\cos\theta=-\frac{W\cos\theta}{\sin\theta}-\frac{W\cos\theta}{2\sin\theta}=-\frac{3W\cos\theta}{2\sin\theta}$

③ 
$\Sigma F_y=0=F_{12}\sin\theta+F_{11}\sin\theta$, $F_{12}=-F_{11}=0$

$\Sigma F_x=0=F_3-F_2+F_{12}\cos\theta-F_{11}\cos\theta$, $F_3=F_2=\frac{3W\cos\theta}{2\sin\theta}$

⑪ 
$\Sigma F_y=0=-F_{12}\sin\theta-F_{13}\sin\theta=0$, $F_{13}=0$

$\Sigma F_x=0=F_{24}+F_{13}\cos\theta-F_{23}-F_{12}\cos\theta$, $F_{24}=F_{23}=-\frac{3W\cos\theta}{2\sin\theta}$

④ is same as ③, ⑫ is same as ⑪, repeated and symmetrical.

$F_1=F_7=\frac{W\cos\theta}{2\sin\theta}=0.2887W$ Ⓣ

$F_2=F_3=F_4=F_5=F_6=0.866W$ Ⓣ

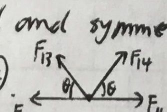
$F_8=F_{21}=-\frac{W}{2\sin\theta}=-0.577W$ Ⓒ

$F_9=F_{20}=\frac{W}{2\sin\theta}=0.577W$ Ⓣ

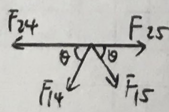
$F_{10}=F_{19}=-\frac{W}{2\sin\theta}=-0.577W$ Ⓒ

$F_{22}=F_{27}=-\frac{W\cos\theta}{\sin\theta}=-0.577W$ Ⓒ

$F_{23}=F_{24}=F_{25}=F_{26}=-\frac{3W\cos\theta}{2\sin\theta}=-\cancel{0.577}\,0.866W$ Ⓒ

④ 
$\Sigma F_y=F_{13}\sin\theta+F_{14}\cos\theta$, $F_{14}=-F_{13}=0$

$\Sigma F_x=-F_3+F_4-F_{13}\cos\theta+F_{14}\cos\theta$, $F_4=F_3=\frac{3W\cos\theta}{2\sin\theta}$

⑫ 
$\Sigma F_y=0=-F_{14}\sin\theta-F_{15}\sin\theta$, $F_{15}=-F_{14}=0$

$\Sigma F_x=0=-F_{24}+F_{25}-F_{14}\cos\theta+F_{15}\cos\theta$, $F_{25}=F_{24}$

$F_{25}=-\frac{3W\cos\theta}{2\sin\theta}$