



In the truss shown above, $\alpha=44^\circ$, $\beta=69^\circ$, $\gamma=48^\circ$, $\delta=76^\circ$, $W=330$, $G=410$, $H=260$.

The equations for the unknown forces $F_1 - F_{10}$ are:

$$\begin{aligned}
 F_1 + F_{3x} + F_8 &= 0 \\
 F_{3y} + F_9 &= 0 \\
 -F_1 + F_2 - F_{4x} + F_{5x} &= 0 \\
 F_{4y} + F_{5y} &= W \\
 -F_2 - F_{6x} &= 0 \\
 F_{6y} + F_{10} &= 0 \\
 -F_{3x} + F_{4x} + F_7 &= 0 \\
 -F_{3y} - F_{4y} &= G \\
 -F_{5x} + F_{6x} - F_7 &= H \\
 -F_{5y} - F_{6y} &= 0
 \end{aligned}$$

Write a MATLAB program to calculate and print the unknown forces $F_1 - F_{10}$.

The output of this program should look like this:

```
forces =  
  251.1640  
   61.4281  
 -710.6016  
   89.5749  
  331.5298  
 -253.9171  
 -543.2648  
  260.0000  
  493.6254  
  246.3746
```