

MATLAB

$$\begin{bmatrix} \frac{3}{7} & 0 & -\frac{4}{13} \\ -\frac{6}{7} & -\frac{4}{5} & -\frac{12}{13} \\ \frac{2}{7} & -\frac{3}{5} & \frac{3}{13} \end{bmatrix} \begin{bmatrix} F_{HA} \\ F_{HB} \\ F_{HC} \end{bmatrix} = \begin{bmatrix} 0 \\ -1000 \\ 0 \end{bmatrix}$$

If the software package MATLAB[®] is used, note that the symbol » on the monitor screen indicates a *prompt*. The **input** statements by user (in **blue**) and **output** from computer (in **black**) are as follows:

```
» A = [3/7 0 -4/13;  
      -6/7 -4/5 -12/13;  
       2/7 -3/5 3/13];  
» B = [0; -1000; 0];  
» X = A\B
```

```
X =  
338.7097  
342.7419  
471.7742
```