1) 
$$\vec{K}_{c} = O(amena - LookAT = \begin{pmatrix} 900 \\ 180 \\ 350 \end{pmatrix} - \begin{pmatrix} 600 \\ 75 \\ 250 \end{pmatrix} = \begin{pmatrix} 300 \\ 105 \\ 100 \end{pmatrix}$$

$$\vec{K}_{c} = \frac{\vec{K}_{c}}{|\vec{K}_{c}||} = \begin{pmatrix} 0.9 \\ 0.3151 \\ 0.3001 \\ 0 \end{pmatrix}$$

2) 
$$\sqrt{10000} = \sqrt{00} - 000$$

$$\left(\frac{300}{175} - \frac{300}{180}\right) = \begin{pmatrix} -300 \\ -5 \\ -100 \end{pmatrix}$$

3) 
$$\overrightarrow{Ic} = \overrightarrow{Rc} \times \overrightarrow{ViewUP} = \begin{pmatrix} -30.0095 \\ -0.03 \\ 90.03 \end{pmatrix}$$
  $\overrightarrow{ic} = \frac{\overrightarrow{Ic}}{Ic} = \begin{pmatrix} -0.3162 \\ -0.0003 \\ 0.9487 \\ 0 \end{pmatrix}$ 

4) 
$$\vec{3}\vec{c} = \vec{k}\vec{e} \times \vec{i}\vec{e} = \begin{pmatrix} 0.2990 \\ -0.9487 \\ 0.0993 \end{pmatrix}$$

5) 
$$M_{CW} = \begin{bmatrix} -0.3163 & 0.2990 & 0.9 & 9007 \\ -0.0003 & -0.9487 & 0.3151 & 180 \\ 0.3487 & 0.0993 & 0.3001 & 350 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

$$M_{WC} = \begin{bmatrix} -0.3161 & -0.0003 & 0.3487 & -47.411 \\ 0.2390 & -0.3487 & 0.0393 & -133.089 \\ 0.9 & 0.3151 & 0.3001 & -971.753 \\ 0 & 0 & 0 & 1 \\ \end{bmatrix}$$