$$dImv = \begin{bmatrix} 0 \\ -3.53 \\ 9.15 \end{bmatrix}$$
, $g = 9.81 \, m/s^2$.

Now

$$\begin{array}{ccc}
\sin \varphi & = & -\frac{\alpha x}{g} & = & 0. \\
\sin \varphi & = & -\frac{\alpha x}{g} & = & 0. \\
\sin \varphi & = & -\frac{\alpha x}{g} & = & 0.
\end{array}$$

$$O_{p} = O_{p} = O_{p}$$

$$\tan \theta_{8} = \frac{3.53}{9.15}$$

$$0 = \tan^{-1} \left(\frac{-3.53}{9.15} \right)$$

$$\begin{bmatrix}
1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{bmatrix}
\begin{bmatrix}
1 & 0 & 0 \\
0 & 0 & 1
\end{bmatrix}
\begin{bmatrix}
1 & 0 & 0 \\
0 & 0.93 & 0.36 \\
0 & 0.43 & 0.36 \\
0 & 0.43 & 0.36
\end{bmatrix} = \begin{bmatrix}
1 & 0 & 0 \\
0 & 0.43 & 0.36 \\
0 & 0.36 & 0.43
\end{bmatrix}$$

$$P = \begin{bmatrix}
1 & 0 & 0 \\
0 & 0.433 & 0.36 \\
0 & 0.36 & 0.43
\end{bmatrix}$$

$$0 - 0.36 & 0.933$$

$$0 - 0.36 & 0.933$$

$$0 - 0.36 & 0.933$$

$$0 - 0.36 & 0.933$$