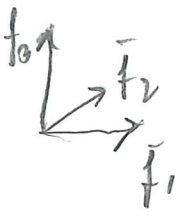
7.3.11

b) $\bar{f}_1 = \frac{1}{3}\underline{e}\begin{pmatrix}1\\2\\2\end{pmatrix}$ $\bar{f}_2 = \frac{1}{3}\underline{e}\begin{pmatrix}2\\-2\\1\end{pmatrix}$ $\bar{f}_3 = \frac{1}{3}\underline{e}\begin{pmatrix}2\\1\\-2\end{pmatrix}$

högerorienterad $\bar{f}_1 \times \bar{f}_2 = \bar{f}_3$

ON-bas

$F(\bar{u}) = \bar{f}_1 \times \bar{u}$. Bestäm A_f



$$A_f = \begin{pmatrix}0&0&0\\0&0&-1\\0&1&0\end{pmatrix}$$

$F(\bar{f}_1) = 0$

$F(\bar{f}_2) = \bar{f}_3 = \underline{e}\begin{pmatrix}0\\0\\1\end{pmatrix} = 0\cdot\bar{f}_1 + 0\bar{f}_2 + 1\cdot\bar{f}_3$

$F(\bar{f}_3) = -\bar{f}_2 = \underline{e}\begin{pmatrix}0\\-1\\0\end{pmatrix}$.