Name: Solutions

Determine the null space of the matrix

$$A = \begin{pmatrix} 1 & 2 & -3 & -1 \\ -2 & -4 & 6 & 3 \end{pmatrix}.$$

So the null space is spanned by the vectors

$$\begin{pmatrix} -2 \\ 1 \\ 0 \end{pmatrix}$$
 and $\begin{pmatrix} 3 \\ 0 \\ 1 \\ 0 \end{pmatrix}$.