Math 220 Assignment

October 10, 2001

Due Friday, October 12

1. For each of the following 4×4 matrices find non-redundant sets of linear equations that characterize the set of all linear combinations of the columns of the given matrix as a subset of \mathbf{R}^4 .

(a)	$\left(\begin{array}{rrrrr}1&2&-4&7\\-2&-1&-1&-8\\5&7&-11&29\\-1&-4&-14&5\end{array}\right)$
(b)	$\left(\begin{array}{rrrrr}1&2&-4&7\\-2&-1&-1&-8\\5&7&-11&29\\-3&-6&12&-21\end{array}\right)$
(c)	$\left(\begin{array}{rrrrr}1&2&-4&7\\-2&-1&-1&-8\\5&7&-11&29\\-1&-4&-14&0\end{array}\right)$

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