Show that the following set S of vectors is linearly independent in V4(**R**)

|  |  |  |
| --- | --- | --- |
| 2 | 1 | 3 |
| 0 | -1 | -2 |
| 1 | 2 | 1 |
| -1 | 2 | -1 |

(The columns should be in brackets and separated by a comma, but I cannot do this in the new word sorry.)