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(1,0,1). 13 Fill in 12 then 31 to get the complete solution in  $\mathbb{R}^3$  to  $x - y + z = 12$ :  $x - y + z = 12 \Rightarrow x = 12 + y - z$ . One particular solution + all nullspace solutions. 14 Column 5 is sure to have no pivot since it is a combination of earlier columns. With 4 pivots in the other columns, the

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singular when its third column  $w$  is a combination  $cu + dv$  of the first columns. A typical column picture has  $b$  outside the plane of  $u, v, w$ . A typical row picture has the intersection line of two planes parallel to the third plane.

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may or may not have a solution. They always have a least-squares solution. The interplay of columns and rows is the heart of linear algebra.

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4.1, page 202 1 Both nullspace  
vectors will be orthogonal to the row  
space vector in  $\mathbb{R}^3$ . The column space  
of  $A$  and the nullspace of  $A^T$  are  
perpendicular lines in  $\mathbb{R}^2$  because  
rank = 1. 2 The nullspace of a 3 by 2  
matrix with rank 2 is  $\mathbb{Z}$  (only the zero

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vector because the 2 columns are independent). So  $x_n = 0$ , and row space =  $\mathbb{R}^2$ .

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these notes, I use the symbol to

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denote the results of elementary  
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