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Matrix Analysis for Scientists and Engineers 11 The rank of  $A$  is  $r = 2$ , so any two linearly independent columns of  $A$  form a basis for  $R(A)$ . Hence  $\{ \begin{bmatrix} 1 \\ 0 \end{bmatrix}, \begin{bmatrix} 0 \\ 1 \end{bmatrix} \}$  is a basis for  $R(A)$ . Now  $\dim R(A) \perp = m - r = 3 - 2 = 1$ , so a basis for  $R(A) \perp$  will have one vector  $v \in \mathbb{R}^3 \setminus \{0\}$ , and  $v$  will be orthogonal to the basis vectors for  $R(A)$ .

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