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foundation for understanding linear algebra. This includes: solving linear systems equations, vector spaces, orthogonality and GramSchmidt algorithm, determinants, eigenvalues and eigenvectors, and linear transforms. Important applications from Chapter 8 will be sprinkled throughout the course.

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LENGTH AND ANGLE: THE DOT PRODUCT 15 36. The resultant velocity of the airplane is the sum of the velocity of the airplane and the velocity of the wind: $r = p + w = 200 \mathbf{i} + 0 \mathbf{j} + 200 \mathbf{i} + 40 \mathbf{j} = 200 \mathbf{i} + 40 \mathbf{j}$. Let the x direction be east, in the direction of the current, and the y direction be north, across the river.

MANUAL FOR INSTRUCTORS - MIT Mathematics

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Solutionsto Exercises 19 (a) Some linear combination of the 100 rows is the row of 100 zeros. (b) Some linear combination of the 100 columns is the column of zeros. (c) A very singular matrix has all ones: $A = \text{ones}(100)$. A better example has 99 random rows (or the numbers 1,...,100i in those rows).