Recognise row, column, square, zero and identity matrices and their dimensions.

Key knowledge | Free preview

Learning target: Recognise row, column, square, zero and identity matrices and their dimensions.

Matrix dimensions are recorded as rows by columns. Different names describe different properties, so a matrix may belong to several types at once. For example, an identity matrix is also square, diagonal, symmetric and binary. Transposition exchanges rows with columns; it does not reverse the order of entries within each original row.

Try the mathematics

Task 1. Classify R=[2,5,7], C=[[2],[5]], Z=[[0,0],[0,0]], I=[[1,0],[0,1]], D=[[3,0],[0,6]], and U=[[1,4],[0,2]]. Give each order and every applicable name among row, column, square, zero, identity, diagonal, symmetric, triangular and binary.

Continue with the full worksheet

The complete resource has 2 focused task sets and substantive worked solutions. Use an exercise book or print the A4 worksheet. This preview shows the first task without its full solution.

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Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 1; Outcome 1; Key knowledge; Matrices; bullet 2; p. 32.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u1-o1-aos4-kk-02. This is an internal identifier, not an official VCAA code.

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