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Polar and singular value decomposition of 3×3 magic squares.

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Summary: In this note, we find polar as well as singular value decompositions of a 3×3 magic square, i.e. a 3×3 matrix M with real elements where each row, column and diagonal adds up to the magic sum s of the magic square.

Classification: K20 H60

Keywords: magic squares; polar decomposition; singular value decomposition; Luoshu

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