

Homework 16

Anthony Jones

The paper actually serves to help two goals: first it briefly reviews and lays out the mathematical methodology of magic squares and their properties; and next, it shows how a certain method (The Siam Method) produces such a magic square.

Proof A is chosen to be Lemma 1 from the paper. This proof is a direct proof that helps to establish one of the three prerequisites for proving that the Siam Method produces a magic square. In fact, Lemma 1, 2, and 3 are all basically similar in methodology.

Proof B is chosen to be Theorem 1 at the end of the paper. This is a very simple direct proof that helps navigating the paper's choice of Lemma. By establishing in the Background section and Siam Method section what is to be expected by this proof, the proof itself actually serves like a conclusion to an essay, highlighting the key takeaway result.