Linear Algebra Test Dataset

Matrix Addition:

$$A + B = [[1, 2], [3, 4]] + [[5, 6], [7, 8]]$$

Solution: [[6, 8], [10, 12]]

Determinant of A:

$$det(A) = (2)(4) - (3)(1) = 5$$

Eigenvalues of A:

Solving
$$det(A - \lambda I) = 0$$
 gives $\lambda = 2, 6$