

HOMEWORK 34

#	Question ID	Objective
1	6.5.1	Use normal equations to find least-squares solutions of systems.
2	6.5.3	Use normal equations to find least-squares solutions of systems.
3	6.5.5	Use normal equations to find least-squares solutions of systems.
4	6.5.10	Use orthogonal projections to find least-squares solutions of systems.
5	6.5.11	Use orthogonal projections to find least-squares solutions of systems.

HOMEWORK 35

#	Question ID	Objective
1	6.7.1	Compute inner products and vector norms.
2	6.7.3	Compute inner products and vector norms.
3	6.7.5	Compute inner products and vector norms.
4	6.7.7	Find the orthogonal projection of a vector onto a subspace.
5	6.7.9	Find the orthogonal projection of a vector onto a subspace.
6	6.7.10	Find the orthogonal projection of a vector onto a subspace.

HOMEWORK 36

#	Question ID	Objective
1	7.1.1	Determine if a matrix is symmetric.
2	7.1.4	Determine if a matrix is symmetric.
3	7.1.5	Determine if a matrix is symmetric.
4	7.1.8	Determine if a matrix is orthogonal.
5	7.1.10	Determine if a matrix is orthogonal.
6	7.1.12	Determine if a matrix is orthogonal.
7	7.1.15	Orthogonally diagonalize a matrix.
8	7.1.17	Orthogonally diagonalize a matrix.

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#	Question ID	Objective
1	7.1.23	Orthogonally diagonalize a matrix.
2	7.1.27	Demonstrate properties of symmetric matrices.
3	7.1.29	Demonstrate properties of symmetric matrices.
4	7.1.32	Demonstrate properties of symmetric matrices.
5	7.1.33	Construct a spectral decomposition of a matrix.