

Elementary Linear Algebra - MATH 2250 - Quiz 16

Name:

1. ☐ T ☐ F If $AB = I$ then $BA = I$.
2. ☐ T ☐ F If Q is an orthonormal matrix, then $Q^T Q = I$ and $Q Q^T = I$.
3. ☐ T ☐ F If Q is an orthonormal matrix, then $Q Q^T$ is a projection matrix.
4. Assume that we start with independent vectors v_1, v_2 , and v_3 , and proceed with the Gram-Schmidt algorithm, and produce w_1, w_2 , and w_3 . What relations hold between w_1, w_2 , and w_3 ?