MATH 3406 Advanced Linear Algebra: Similarity

1. Which of the following is not a similarity transformation?

A. Rotation
B. Reflection
C. Translation
D. Dilation

2. Which of the following is not a characteristic of a similarity transformation?

A. It is a linear transformation.
B. It is a one-to-one transformation.
C. It is a onto transformation.
D. It preserves angles.

3. Which of the following is not a property of a similarity transformation?

A. It is a linear transformation.
B. It is a one-to-one transformation.
C. It is a onto transformation.
D. It preserves distances.

4. Which of the following is not a property of a similarity transformation?

A. It is a linear transformation.
B. It is a one-to-one transformation.
C. It is a onto transformation.
D. It is a conformal transformation.

5. Which of the following is not a property of a similarity transformation?

A. It is a linear transformation.
B. It is a one-to-one transformation.
C. It is a onto transformation.
D. It is an isometry.

6. Which of the following is not a property of a similarity transformation?

A. It is a linear transformation.
B. It is a one-to-one transformation.
C. It is a onto transformation.
D. It is a similarity transformation.

7. Which of the following is not a property of a similarity transformation?

A. It is a linear transformation.
B. It is a one-to-one transformation.
C. It is a onto transformation.
D. It is a affine transformation.

8. Which of the following is not a property of a similarity transformation?

A. It is a linear transformation.
B. It is a one-to-one transformation.
C. It is a onto transformation.
D. It is a projective transformation.

9. Which of the following is not a property of a similarity transformation?

A. It is a linear transformation.
B. It is a one-to-one transformation.
C. It is a onto transformation.
D. It is a invertible transformation.

10. Which of the following is not a property of a similarity transformation?

A. It is a linear transformation.
B. It is a one-to-one transformation.
C. It is a onto transformation.
D. It is a non-singular transformation.