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(Sophist,

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1. *W* is a \mathbb{C} -vector space of dimension n .

2. $\mathcal{B} = \{v_1, v_2, \dots, v_n\}$ is a basis for W .

3. $\mathcal{B}' = \{w_1, w_2, \dots, w_n\}$ is another basis for W .

4. \mathcal{B} and \mathcal{B}' have the same cardinality.

5. \mathcal{B} and \mathcal{B}' are linearly independent sets.

6. \mathcal{B} and \mathcal{B}' span the same subspace of W .

7. \mathcal{B} and \mathcal{B}' are bases for W .

8. \mathcal{B} and \mathcal{B}' are linearly dependent sets.

9. \mathcal{B} and \mathcal{B}' do not span the same subspace of W .

10. \mathcal{B} and \mathcal{B}' are not bases for W .

11. \mathcal{B} and \mathcal{B}' are linearly independent sets.

12. \mathcal{B} and \mathcal{B}' span the same subspace of W .

13. \mathcal{B} and \mathcal{B}' are bases for W .

14. \mathcal{B} and \mathcal{B}' are linearly dependent sets.

15. \mathcal{B} and \mathcal{B}' do not span the same subspace of W .

16. \mathcal{B} and \mathcal{B}' are not bases for W .

17. \mathcal{B} and \mathcal{B}' are linearly independent sets.

18. \mathcal{B} and \mathcal{B}' span the same subspace of W .

19. \mathcal{B} and \mathcal{B}' are bases for W .

20. \mathcal{B} and \mathcal{B}' are linearly dependent sets.

21. \mathcal{B} and \mathcal{B}' do not span the same subspace of W .

22. \mathcal{B} and \mathcal{B}' are not bases for W .

23. \mathcal{B} and \mathcal{B}' are linearly independent sets.

24. \mathcal{B} and \mathcal{B}' span the same subspace of W .

25. \mathcal{B} and \mathcal{B}' are bases for W .

26. \mathcal{B} and \mathcal{B}' are linearly dependent sets.

27. \mathcal{B} and \mathcal{B}' do not span the same subspace of W .

28. \mathcal{B} and \mathcal{B}' are not bases for W .



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