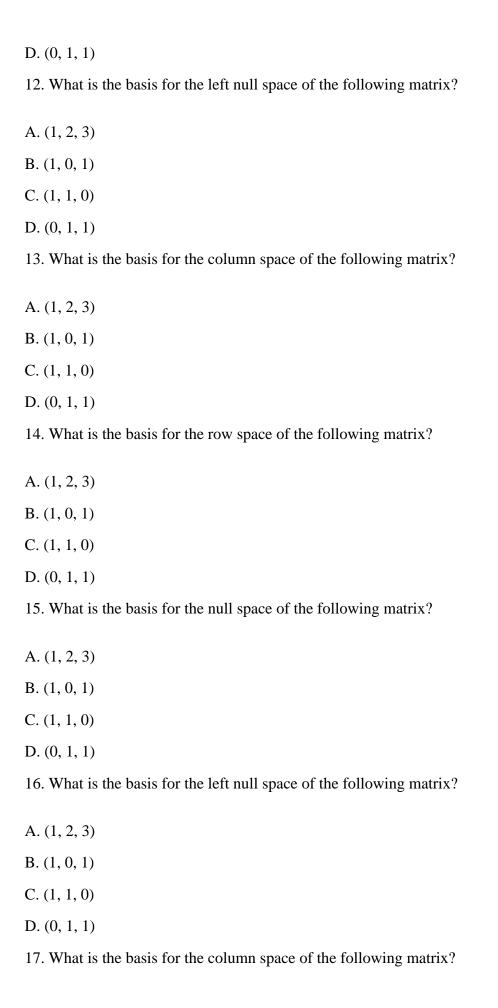1. What is the basis for the column space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

2. What is the basis for the row space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

3. What is the basis for the null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

4. What is the basis for the left null space of the following matrix?

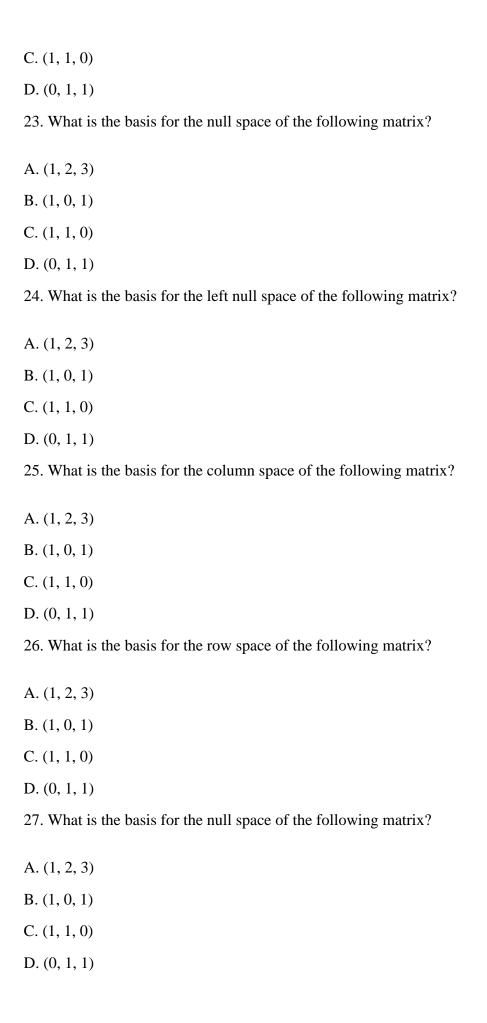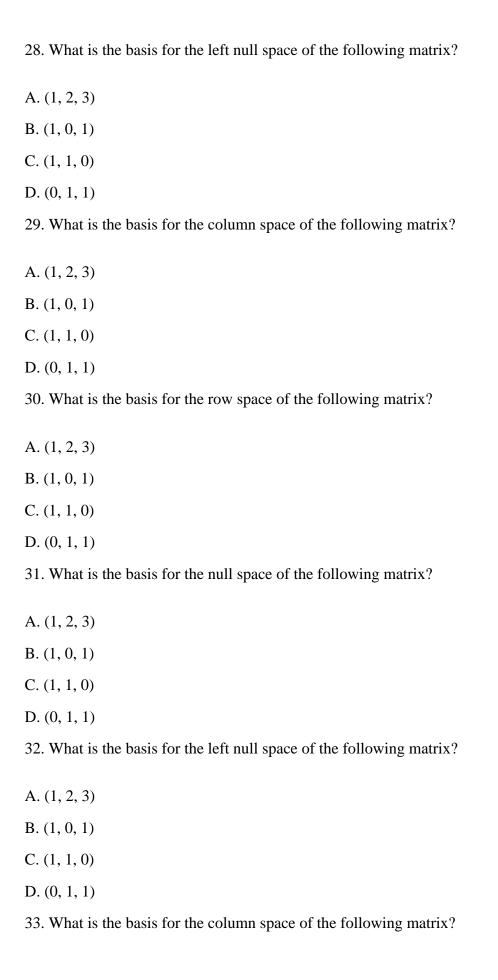A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

5. What is the basis for the column space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

6. What is the basis for the row space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

7. What is the basis for the null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

8. What is the basis for the left null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

9. What is the basis for the column space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

10. What is the basis for the row space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

11. What is the basis for the null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

12. What is the basis for the left null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

13. What is the basis for the column space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

14. What is the basis for the row space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

15. What is the basis for the null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

16. What is the basis for the left null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

17. What is the basis for the column space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

18. What is the basis for the row space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

19. What is the basis for the null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

20. What is the basis for the left null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

21. What is the basis for the column space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

22. What is the basis for the row space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

23. What is the basis for the null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

24. What is the basis for the left null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

25. What is the basis for the column space of the following matrix?
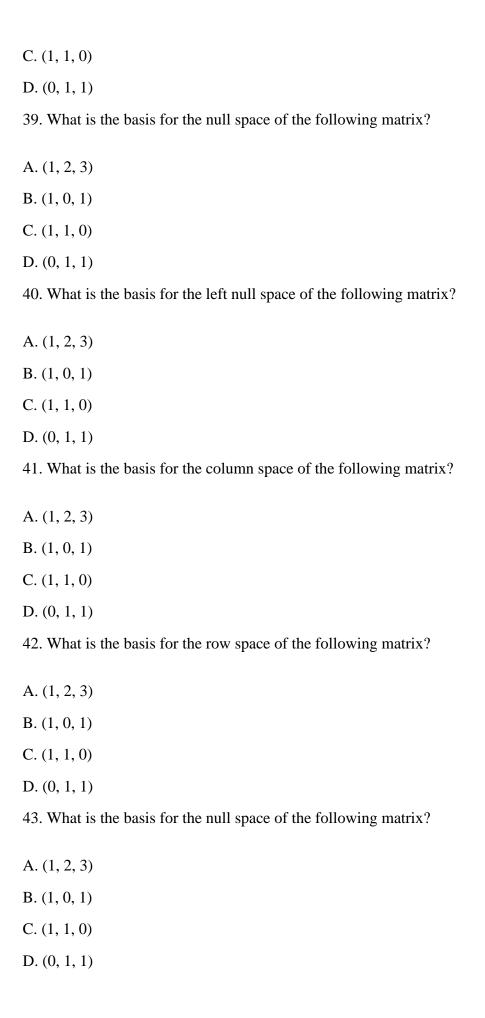
A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

26. What is the basis for the row space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

27. What is the basis for the null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

28. What is the basis for the left null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

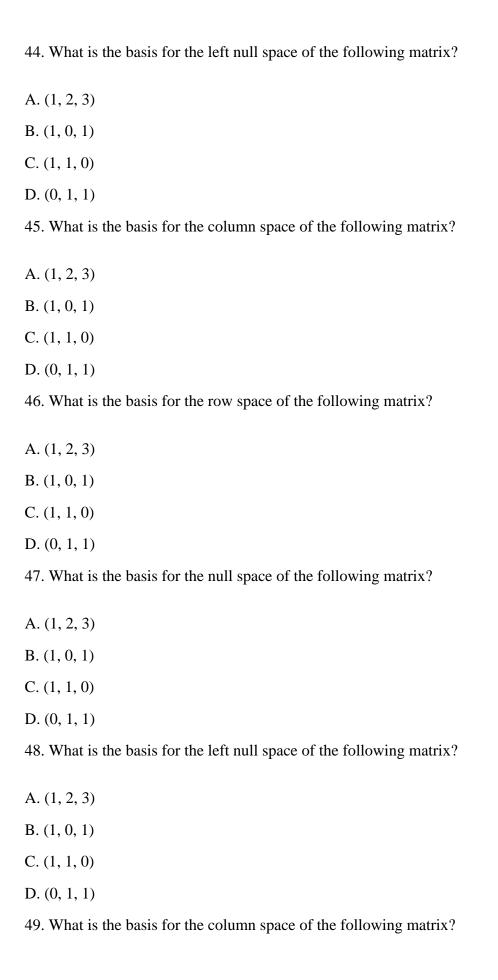29. What is the basis for the column space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

30. What is the basis for the row space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

31. What is the basis for the null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

32. What is the basis for the left null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

33. What is the basis for the column space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

34. What is the basis for the row space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

35. What is the basis for the null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

36. What is the basis for the left null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

37. What is the basis for the column space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

38. What is the basis for the row space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

39. What is the basis for the null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

40. What is the basis for the left null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

41. What is the basis for the column space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

42. What is the basis for the row space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

43. What is the basis for the null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

44. What is the basis for the left null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

45. What is the basis for the column space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

46. What is the basis for the row space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

47. What is the basis for the null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

48. What is the basis for the left null space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

49. What is the basis for the column space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

50. What is the basis for the row space of the following matrix?

A. (1, 2, 3)

B. (1, 0, 1)

C. (1, 1, 0)

D. (0, 1, 1)

Answer Key

1. B
2. D
3. B
4. C
5. A
6. C
7. A
8. B
9. A
10. C
11. A
12. B
13. A
14. C
15. A
16. B
17. A
18. C
19. A
20. B
21. A
22. C
23. A
24. B
25. A
26. C
27. A
28. B
29. A
30. C
31. A
32. B
33. A
34. C
35. A
36. B
37. A

38. C
39. A
40. B
41. A
42. C
43. A
44. B
45. A
46. C
47. A
48. B
49. A
50. C