

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 right null 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 column 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 row 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 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 left null 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 right null 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. A

3. D

4. C

5. B

6. A

- 7. D
- 8. C
- 9. B
- 10. A