

1. What is the Divergence Theorem?

A. The Divergence Theorem states that the divergence of a vector field is equal to the curl of the vector field.

B. The Divergence Theorem states that the divergence of a vector field is equal to the divergence of the gradient of the vector field.

C. The Divergence Theorem states that the divergence of a vector field is equal to the divergence of the curl of the vector field.

D. The Divergence Theorem states that the divergence of a vector field is equal to the divergence of the divergence of the vector field.

2. What is the gradient of a vector field?

A. The gradient of a vector field is a vector field that is perpendicular to the vector field.

B. The gradient of a vector field is a vector field that is parallel to the vector field.

C. The gradient of a vector field is a vector field that is perpendicular to the gradient of the vector field.

D. The gradient of a vector field is a vector field that is parallel to the gradient of the vector field.

3. What is the curl of a vector field?

A. The curl of a vector field is a vector field that is perpendicular to the vector field.

B. The curl of a vector field is a vector field that is parallel to the vector field.

C. The curl of a vector field is a vector field that is perpendicular to the curl of the vector field.

D. The curl of a vector field is a vector field that is parallel to the curl of the vector field.

4. What is the divergence of a vector field?

A. The divergence of a vector field is a vector field that is perpendicular to the vector field.

B. The divergence of a vector field is a vector field that is parallel to the vector field.

C. The divergence of a vector field is a vector field that is perpendicular to the divergence of the vector field.

D. The divergence of a vector field is a vector field that is parallel to the divergence of the vector field.

5. What is the Divergence Theorem used for?

A. The Divergence Theorem is used to find the divergence of a vector field.

- B. The Divergence Theorem is used to find the gradient of a vector field.
- C. The Divergence Theorem is used to find the curl of a vector field.
- D. The Divergence Theorem is used to find the divergence of the gradient of a vector field.

Answer Key:

1. B
2. D
3. A
4. C
5. D