

Answer following

- 1. Subspace and complement of $\mathbb{R}^3$: $\mathbb{R}^3, \mathbb{R}^2, \mathbb{R}^1$
- 2. A path independent vector : $\text{gradient, conservative, curl free, irrotational}$
- 3. A non conservative vector field : $\text{curl, rotational, solenoidal, irrotational}$

Identify all points of each of the following vector functions

Explain the direction of the gradient vector at each point

- 1. $\text{scalar potential vector}$: $\nabla \phi$ points in the direction of ϕ
- 2. $\text{conservative vector field}$: $\nabla \phi$ points in the direction of ϕ
- 3. $\text{non conservative vector field}$: $\nabla \phi$ points in the direction of ϕ
- 4. $\text{conservative vector field}$: $\nabla \phi$ points in the direction of ϕ

Exercise 10.10

Find the value of $\nabla \phi$ at each of the following points and explain the direction of the gradient vector

- 1. $\nabla \phi$ at $(1, 2, 3)$: $\nabla \phi = (1, 2, 3)$: $\nabla \phi$ points in the direction of ϕ
- 2. $\nabla \phi$ at $(2, 3, 4)$: $\nabla \phi = (2, 3, 4)$: $\nabla \phi$ points in the direction of ϕ
- 3. $\nabla \phi$ at $(3, 4, 5)$: $\nabla \phi = (3, 4, 5)$: $\nabla \phi$ points in the direction of ϕ
- 4. $\nabla \phi$ at $(4, 5, 6)$: $\nabla \phi = (4, 5, 6)$: $\nabla \phi$ points in the direction of ϕ
- 5. $\nabla \phi$ at $(5, 6, 7)$: $\nabla \phi = (5, 6, 7)$: $\nabla \phi$ points in the direction of ϕ
- 6. $\nabla \phi$ at $(6, 7, 8)$: $\nabla \phi = (6, 7, 8)$: $\nabla \phi$ points in the direction of ϕ
- 7. $\nabla \phi$ at $(7, 8, 9)$: $\nabla \phi = (7, 8, 9)$: $\nabla \phi$ points in the direction of ϕ
- 8. $\nabla \phi$ at $(8, 9, 10)$: $\nabla \phi = (8, 9, 10)$: $\nabla \phi$ points in the direction of ϕ
- 9. $\nabla \phi$ at $(9, 10, 11)$: $\nabla \phi = (9, 10, 11)$: $\nabla \phi$ points in the direction of ϕ
- 10. $\nabla \phi$ at $(10, 11, 12)$: $\nabla \phi = (10, 11, 12)$: $\nabla \phi$ points in the direction of ϕ

Find the value of $\nabla \phi$ at each of the following points and explain the direction of the gradient vector

- 1. $\nabla \phi$ at $(1, 2, 3)$: $\nabla \phi = (1, 2, 3)$: $\nabla \phi$ points in the direction of ϕ
- 2. $\nabla \phi$ at $(2, 3, 4)$: $\nabla \phi = (2, 3, 4)$: $\nabla \phi$ points in the direction of ϕ
- 3. $\nabla \phi$ at $(3, 4, 5)$: $\nabla \phi = (3, 4, 5)$: $\nabla \phi$ points in the direction of ϕ
- 4. $\nabla \phi$ at $(4, 5, 6)$: $\nabla \phi = (4, 5, 6)$: $\nabla \phi$ points in the direction of ϕ
- 5. $\nabla \phi$ at $(5, 6, 7)$: $\nabla \phi = (5, 6, 7)$: $\nabla \phi$ points in the direction of ϕ
- 6. $\nabla \phi$ at $(6, 7, 8)$: $\nabla \phi = (6, 7, 8)$: $\nabla \phi$ points in the direction of ϕ
- 7. $\nabla \phi$ at $(7, 8, 9)$: $\nabla \phi = (7, 8, 9)$: $\nabla \phi$ points in the direction of ϕ
- 8. $\nabla \phi$ at $(8, 9, 10)$: $\nabla \phi = (8, 9, 10)$: $\nabla \phi$ points in the direction of ϕ
- 9. $\nabla \phi$ at $(9, 10, 11)$: $\nabla \phi = (9, 10, 11)$: $\nabla \phi$ points in the direction of ϕ
- 10. $\nabla \phi$ at $(10, 11, 12)$: $\nabla \phi = (10, 11, 12)$: $\nabla \phi$ points in the direction of ϕ

Exercise 10.11

Answers Of 11 3 Prentice Hall Geometry

**Oscar Castillo,Gökhan
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