

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 : $\text{curl free, conservative, irrotational}$

Identify all points of each of the following vector fields.
 Classify them as conservative, irrotational, solenoidal and/or path independent.

- 1. conservative vector : $\text{curl free, irrotational}$
- 2. irrotational vector : $\text{curl free, irrotational}$
- 3. non irrotational vector : $\text{curl free, irrotational}$
- 4. solenoidal vector : $\text{curl free, irrotational}$

Exercise 2.2

Find the value of $\nabla \cdot \mathbf{F}$ for the following vector fields $\mathbf{F}$ and identify the nature of $\mathbf{F}$.

- 1. $\mathbf{F} = x\mathbf{i} + y\mathbf{j} + z\mathbf{k}$: $\nabla \cdot \mathbf{F} = 3$: $\text{irrotational, conservative}$
- 2. $\mathbf{F} = x\mathbf{i} + y\mathbf{j} + z\mathbf{k}$: $\nabla \cdot \mathbf{F} = 3$: $\text{irrotational, conservative}$
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Exercise 2.3

Prentice Hall Geometry 3 7 Enrichment Answers

J Spring



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