



Question

Consider the vector field $\vec{F}(x, y) = \langle 1 - \cos(y), 1 - \cos(y) \rangle$ in the plane. Which of these features does \vec{F} have?

- I. Every vector in the field has the same direction.
 - II. Every vector in the field points away from the origin.
 - III. The field is periodic in the y -direction.
 - IV. The field is zero along horizontal lines.
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- A. I and III only
 - B. II and IV only
 - C. I and IV only
 - D. All of them
 - E. None of these