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*Zero potential and/or field at a point.* Consider an electrostatic field in a region of space and the following two statements: (a) If the electric scalar potential at a point in the region is zero, then the electric field vector at that point must be zero as well; (b) If the electric field vector at a point is zero, then the potential at the same point must be zero. Which of the statements is true?

- (A) Statement (a) only.
- (B) Statement (b) only.
- (C) Both statements.
- (D) None of the statements.

*Solution:* (D)

*Answer:* (D)