Answer on Question #49179-Physics-Electromagnetism

A charge particle projected into a region that may have an electric field (E) and/or magnetic field (B). If the charged particle goes un-accelerated, then it is not possible that:

- (1) E = 0, B = 0
- (2) E ≠ 0, B = 0
- (3) E = 0, B ≠ 0
- (4) E ≠ 0, B ≠ 0

Solution

- (1) If both E and B are zero, then no force exists.
- (3) If charge particle is moving parallel to B, then no force exists.
- (4) If eE = qvB, then no force exists.

Answer: (2) E ≠ 0, B = 0.

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