



AP[®] Physics C Electricity and Magnetism 2001 Scoring Commentary

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**AP[®] PHYSICS C ELECTRICITY AND MAGNETISM
2001 SCORING COMMENTARY**

Question 1

Sample 1 (Score 15)

The student earned all 15 points. The student was very explicit about the vector nature of the calculation in part (a).

Sample 2 (Score 13)

All work was correct except for part (e), which earned no credit.

Question 2

Sample 1 (Score 15)

The student earned all 15 points. Method 2 was used for part (a) and part (d).

Sample 2 (Score 15)

The student earned all 15 points. Method 3 was used for part (a) and Method 1 for part (d).

Question 3

Sample 1 (Score 15)

The student earned all 15 points. The diagram and vector equation in part (b) are enough to justify that the student used correct reasoning to obtain the answer.

Sample 2 (Score 15)

The student earned all 15 points. In part (b) the student showed knowledge of the right-hand rule to determine the field from the cable, even though it wasn't mentioned by name.