**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_**

**Physics Review Book-EM – Electricity and Magnetism Period\_\_\_\_\_\_\_\_\_**

**031620 1055 Class\_\_\_\_\_\_\_\_\_\_**

**SHOW ALL WORK! Place final answer in the space provided including correct significant digits and proper units!**

**Electrostatics RB p114-118, Do #1-17**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 11.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 13.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 14.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 15.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 16.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 17. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

**Electric Fields RB p118-120, Do #18-28**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 18.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 19.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 20.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 21.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 22.

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** 23.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 24. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 25.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 26. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 27. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 28. slope

**Electric Current RB p120-125, Do #29-48**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 29. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 30.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 31.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 32.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 33.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 34.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 35. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 36. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 37. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 38.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 39.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 40.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 41. Sketch Graph

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 42. Show How Here:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 43.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 44.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 45. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 46.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 47.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 48.

**Electric Circuits RB p125-133, Do #49-99**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 49.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 50.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 51.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 52.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 53. Reading V

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 54. Reading I

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 55.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 56.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 57.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 58.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 59.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 60.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 61.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 62. Reading A

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 63. Reading A

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 64.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 65.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 66.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 67.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 68.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 69.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 70.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 71.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 72. Work

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 73. Work

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 74. Work

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 75. Work

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 76. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 77.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 78. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 79. Compare. Why?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 80. Explain\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 81. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 82. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 83. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 84. Compare. Why?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 85. Explain\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 86.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 87.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 88.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 89.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 90.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 91.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 92.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 93.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 94.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 95. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 96. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 97. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 98.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 99.

**Magnetism RB p133-135, Do #100-109**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 100.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 101.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 102.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 103.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 104. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 105.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 106. Sketch needle.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 107.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 108. point

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 109. point

**Electromagnetic Induction RB p135-136, Do #110-112**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 110.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 111.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 112.