

1st Marking Period Exam Review Answers

1. -0.25 mC
2. 3.45×10^{-28} N
3. 3.60×10^{18} C
4. Review the Electrical Charge Reading
5. A) 1.60×10^{-15} C B) 1.10×10^{-15} C C) 1.92×10^{-14} C
6. A) Attractive B) 8.22×10^{-8} N
7. 0.217 m
8. 9.32×10^{-7} C
9. No
10. -7.0 V
11. B
12. A
13. 1.5 A out
14. 16 V
15. Into the page
16. You need to answer this
17. You need to answer this
18. Review the magnetic reading
19. Review Forces of Nature
20. 3
21. A) 1000000 A
 B) you don't have enough info to solve this. You need to know the resistance of air, which is $2.8 \times 10^{16} \Omega$ (a rough estimate). With this info the answer is 2.8×10^{22} V
22. You need to answer this, review the magnetic reading
23. You need to answer this
24. $I_1=1.74$ A $I_2=1.09$ A $I_3=0.65$ A
25. $I_1=2.5$ A $I_2=1.25$ A $I_3=1.25$ A $I_4=1.67$ A