

1. 1.60217646 E-19 Coulombs
2. 10 Ohms
3. 0.6 Amps
4. Graph must show a straight line intersecting the origin with a slope of 0.4
5. Various answers:
ex. Full credit for "The end through which conventional current enters, or electrons exit"
ex. Full credit for "The end at which atoms lose electrons, becoming anions"
ex. Partial credit for "The positive end" or "The negative end"
6. Various answers:
ex. Full credit for "A substance that is electrically conductive due to containing free ions"
ex. Partial credit for "A solution that can conduct electricity due to dissolved ions"
7. 1.105 Volts (21/19)
8. 0.474 Amps (9/19)
9. Up
10. Up
11. 1.105 Watts (21/19)
12. Various answers:
ex. Full credit for "A current induced in a dielectric gas by an electric field"
ex. Partial credit for "A spark"
13. Various answers summarizing the right-hand grip rule
14. Yes
15. No
16. 0 Volts
17. Various answers
18. Various answers summarizing "Ceramic is an insulator"
19. Various answers
20. Various answers summarizing "A compass points in the direction of magnetic field lines"