

# AP Physics Chapter 15 Answers

## Homework 15.A ( 20 questions)

7)  $3.1 \times 10^{14}$  electrons

8) a)  $-8.0 \times 10^{-10}$  C                      b)  $5.0 \times 10^9$  electrons

9) a)  $+4.8 \times 10^{-9}$  C                      b)  $2.7 \times 10^{-20}$  kg

10) there are 2 protons in each alpha particle, so  $q = +6.40 \times 10^{-19}$  C

13) no

14) If you bring a negatively charged object near the electroscope, the induction process will charge the electroscope with positive charges. You can prove the charges are positive by bringing the negatively charged object near the leaves and seeing if the leaves fall.

22)  $1.3 \times 10^{-7}$  N

23) a)  $5.8 \times 10^{-11}$  N                      b) Zero, because they are internal forces of the system.

25) 2.24 m

26) 1.0 N

27) a) 50 cm                      b) 50 cm

28) a) Nowhere, since both forces are in the same direction.

b) Nowhere, since both forces are in the same direction.

30) a)  $8.2 \times 10^{-8}$  N                      b)  $2.2 \times 10^6$  m/s    c)  $9.2 \times 10^{21}$  g, where  $g = 9.80$  m/s<sup>2</sup>

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**Ensheng Dong**



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