

# 2025 EDITION – VERIFIED CHAPTERS

## CHAPTER 1

**PF.1.1** A proton has  $1.602 \times 10^{-19}$  C. Hence,  $6.467$  billion protons have  
 $= 1.602 \times 10^{-19} \times 6.467 \times 10^{11} = 1.0402 \times 10^{-7}$  C

**PF.1.2**  $i = dq/dt = d(20 - 15t - 10t^2)/dt = (-15 - 20t - 20t^2)$  mA  
At  $t = 1.0$  ms,  $i = -15 + 20 \times 10^{-3} = -15 + 0.020 = -14.980$  mA

**PF.1.3**  $q = \int i dt = \int (-15 + 20t - 20t^2) dt = -15t + 10t^2 - \frac{20}{3}t^3$   
 $= 8 + 80 - 137 = 26.67$  C

**PF.1.4** (a)  $V_a = iR = 20 \times 5 = 100$  V = 20 V

(b)  $V_b = iR = 20 \times (-1) = -20$  V

**PF.1.5**  $w = \int p dt = \int i^2 R dt = \int (-15 + 20t - 20t^2)^2 dt$   
 $= \int (225 - 600t + 400t^2 + 600t^3 - 800t^4 + 400t^6) dt$   
 $= 225t - 300t^2 + 133.33t^3 + 150t^4 - 160t^5 + 66.67t^7$   
 $= 11.82$  joules

(b)  $w = 6 \times 10^{-3} \int i dt = 6 \times 10^{-3} \int 20 \cos(20t) dt = 6 \times 10^{-3} \times \frac{20}{20} \sin(20t)$   
 $= 6 \times 10^{-3} \times \sin(20 \times 0.01) = 6 \times 10^{-3} \times \sin(0.2) = 6 \times 10^{-3} \times 0.19846$   
At  $t = 5$  ms,  $w = 6 \times 10^{-3} \times \sin(1) = 6 \times 10^{-3} \times 0.84147$   
 $= 5.04882 \times 10^{-3} = 5.049$  millijoules

**PF.1.6**  $p = vi = 115 \times 12 = 1380$  watts,  $w = p \times t$

$W = 1380 \times 24 = 33.12$  kJ, with losses

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