

# 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**  $q = \int i dt = \int_0^2 (20 - 15t - 10t^2) dt = 20t - \frac{15}{2}t^2 - \frac{10}{3}t^3$   
 $= 8 + 20 - 10 = 28.00$  C

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

(b)  $V_b = iR = 20 \times 10 = 200$  V

**PF.1.5**  $i = dq/dt = d(5t^2 + 10t - 5t^3)/dt = 10t + 10 - 15t^2$

$= 10t + 10 - 15t^2$   
 $= 11.82$  watts

(b)  $w = q \times V = \int_0^2 (10t + 10 - 15t^2) \times (20 - 15t - 10t^2) dt = 11.82$  watts

$g = vi = 5 \cos(20t) \times 25 = (125 \cos^2(20t) - 125 \cos(40t))$

At  $t = 5$  ms,  $g = 5 \cos(20 \times 5 \times 10^{-3}) = (125 \cos^2(0.1) - 125 \cos(0.2))$   
 $= 50.587799 \text{ mW} = 50.59 \text{ mW}$

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

$W = 1380 \times 24 = 33.12 \text{ kJ}$  worth of energy

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