

# 2025 EDITION – VERIFIED CHAPTERS

## CHAPTER 1

**PF.1.1** A proton has  $1.602 \times 10^{-19}$  C. Hence,  $6.467$  billion protons have  
 $= 1.602 \times 10^{-19} \times 6.467 \times 10^{11} = 1.0422 \times 10^{-7}$  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)  $V_a = iR = 1000 \times 20 = 20$  V

(b)  $V_b = iR = 1000 \times 20 = -20$  V

**PF.1.5**  $i = dq/dt = d(5t^2 + 10t - 6)/dt = 10t + 10$  mA

# SOLUTION MANUAL

$= 11.82$  watts

(b)  $w = q \times V = 10 \int_0^1 i dt = 10 \times \int_0^1 (10t + 10) dt = 10 \times [5t^2 + 10t]_0^1 = 150$  mJ

$p = vi = 5 \cos(20t) \times 10 = (50 \cos^2 20t - 50 \sin^2 20t)$  W

At  $t = 5$  ms,  $p = 5 \cos(20 \times 5 \times 10^{-3}) \times 10 = (50 \cos^2 0.1 - 50 \sin^2 0.1)$   
 $= 50(0.9877)^2 - 50(0.1736)^2 = 49.264$  watts

**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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