

AP Physics C: Electricity and Magnetism

Past-Paper Exercise Sheets — Question Index

30 subtopics • 192 questions

8.1 Electric Charge and Electric Force

8 questions • calculation x8

Source	Q	Type
2026	2	calculation
2024 Set 2	1	calculation
2023 Set 1	1	calculation
2023 Set 2	1	calculation
2021	2	calculation
2019 Set 1	1	calculation
2019 Set 2	2	calculation
2014	3	calculation

8.2 Electric Charge and the Process of Charging

1 question • calculation

Source	Q	Type
2021	2	calculation

8.3 Electric Fields

6 questions • calculation x6

Source	Q	Type
2024 Set 1	1	calculation
2024 Set 2	1	calculation
2017	1	calculation
2016	1	calculation
2015	1	calculation
2014	3	calculation

8.4 Electric Fields of Charge Distributions

10 questions • calculation x10

Source	Q	Type
2026	2	calculation
2024 Set 1	1	calculation
2024 Set 2	1	calculation
2022 Set 1	1	calculation
2022 Set 2	1	calculation
2019 Set 1	1	calculation
2019 Set 2	2	calculation
2018	1	calculation
2017	1	calculation
2014	3	calculation

8.5 Electric Flux

5 questions • calculation x5

Source	Q	Type
2024 Set 1	1	calculation
2024 Set 2	1	calculation
2018	1	calculation
2017	1	calculation
2016	1	calculation

8.6 Gauss's Law

10 questions • calculation x10

Source	Q	Type
2025	1	calculation
2024 Set 2	1	calculation
2022 Set 1	1	calculation
2022 Set 2	1	calculation
2019 Set 1	1	calculation
2019 Set 2	2	calculation
2018	1	calculation
2017	1	calculation
2015	1	calculation
2014	3	calculation

9.1 Electric Potential Energy

4 questions • calculation x4

Source	Q	Type
2024 Set 1	1	calculation
2024 Set 2	1	calculation
2019 Set 2	2	calculation
2016	1	calculation

9.2 Electric Potential

11 questions • calculation x11

Source	Q	Type
2026	2	calculation
2025	1	calculation
2024 Set 1	1	calculation
2024 Set 2	1	calculation
2022 Set 1	1	calculation
2022 Set 2	1	calculation
2019 Set 2	2	calculation
2018	1	calculation
2017	1	calculation
2016	1	calculation
2015	1	calculation

9.3 Conservation of Electric Energy

5 questions • calculation x5

Source	Q	Type
2024 Set 2	1	calculation
2019 Set 2	1	calculation
2019 Set 2	2	calculation
2019 Set 2	3	calculation
2016	1	calculation

10.1 Electrostatics with Conductors

5 questions • calculation x5

Source	Q	Type
2023 Set 1	1	calculation
2023 Set 2	1	calculation
2022 Set 2	1	calculation
2021	2	calculation
2018	1	calculation

10.2 Redistribution of Charge Between Conductors

3 questions • calculation x3

Source	Q	Type
2023 Set 1	3	calculation
2023 Set 2	1	calculation
2022 Set 1	1	calculation

10.3 Capacitors

9 questions • calculation x9

Source	Q	Type
2025	1	calculation
2023 Set 1	3	calculation
2023 Set 2	3	calculation
2022 Set 1	2	calculation
2021	1	calculation
2019 Set 2	1	calculation
2018	2	calculation
2017	2	calculation
2015	1	calculation

10.4 Dielectrics

4 questions • calculation x4

Source	Q	Type
2025	1	calculation
2023 Set 2	3	calculation
2018	2	calculation
2015	1	calculation

11.1 Electric Current

2 questions • calculation x2

Source	Q	Type
2015	2	calculation
2015	3	calculation

11.2 Electric Circuits

10 questions • calculation x10

Source	Q	Type
2024 Set 1	2	calculation
2024 Set 2	2	calculation
2023 Set 1	2	calculation
2023 Set 2	3	calculation
2022 Set 1	2	calculation
2022 Set 2	2	calculation
2019 Set 1	2	calculation
2017	3	calculation
2016	2	calculation
2015	2	calculation

11.3 Resistance, Resistivity, and Ohm's Law

10 questions • calculation x9, data response

Source	Q	Type
2025	2	calculation
2025	3	data response
2024 Set 2	2	calculation
2022 Set 1	3	calculation
2022 Set 2	3	calculation
2019 Set 1	2	calculation
2019 Set 1	3	calculation
2016	2	calculation
2015	2	calculation
2014	1	calculation

11.4 Electric Power

12 questions • calculation x12

Source	Q	Type
2025	2	calculation
2024 Set 1	3	calculation
2024 Set 2	3	calculation
2023 Set 1	3	calculation
2023 Set 2	3	calculation
2022 Set 2	3	calculation
2021	3	calculation
2019 Set 1	2	calculation
2017	2	calculation
2017	3	calculation
2016	3	calculation
2015	3	calculation

11.5 Compound Direct Current Circuits

5 questions • calculation x5

Source	Q	Type
2023 Set 2	2	calculation
2021	1	calculation
2019 Set 2	1	calculation
2015	2	calculation
2014	1	calculation

11.6 Kirchhoff's Loop Rule

6 questions • calculation x6

Source	Q	Type
2024 Set 1	2	calculation
2024 Set 2	2	calculation
2023 Set 2	3	calculation
2019 Set 1	2	calculation
2019 Set 2	1	calculation
2015	2	calculation

11.7 Kirchhoff's Junction Rule

2 questions • calculation x2

Source	Q	Type
2019 Set 1	2	calculation
2014	1	calculation

11.8 Resistor-Capacitor (RC) Circuits

10 questions • calculation x10

Source	Q	Type
2023 Set 1	3	calculation
2023 Set 2	3	calculation
2022 Set 1	2	calculation
2022 Set 2	2	calculation
2021	1	calculation
2019 Set 1	2	calculation
2019 Set 2	1	calculation
2018	2	calculation
2017	2	calculation
2014	1	calculation

12.1 Magnetic Fields

3 questions • calculation $x3$

Source	Q	Type
2019 Set 1	3	calculation
2017	3	calculation
2016	3	calculation

12.2 Magnetism and Moving Charges

5 questions • calculation $x5$

Source	Q	Type
2026	1	calculation
2025	4	calculation
2023 Set 2	2	calculation
2019 Set 2	3	calculation
2018	3	calculation

12.3 Magnetic Fields of Current-Carrying Wires and the Biot-Savart Law

3 questions • calculation $x3$

Source	Q	Type
2026	1	calculation
2025	4	calculation
2018	3	calculation

12.4 Ampère's Law

4 questions • calculation $x4$

Source	Q	Type
2026	1	calculation
2019 Set 1	3	calculation
2018	3	calculation
2017	3	calculation

13.1 Magnetic Flux

10 questions • calculation $x10$

Source	Q	Type
2026	4	calculation
2024 Set 1	3	calculation
2024 Set 2	3	calculation
2022 Set 1	3	calculation
2022 Set 2	3	calculation
2021	3	calculation
2019 Set 1	3	calculation
2018	3	calculation
2015	3	calculation
2014	2	calculation

13.2 Electromagnetic Induction

12 questions • calculation $x12$

Source	Q	Type
2026	4	calculation
2025	2	calculation
2024 Set 1	3	calculation
2023 Set 1	2	calculation
2023 Set 2	2	calculation
2022 Set 1	3	calculation
2022 Set 2	3	calculation
2021	3	calculation
2019 Set 1	3	calculation
2018	3	calculation
2016	3	calculation
2015	3	calculation

13.3 Induced Currents and Magnetic Forces

12 questions • calculation $x12$

Source	Q	Type
2026	4	calculation
2024 Set 1	3	calculation
2024 Set 2	3	calculation
2023 Set 1	2	calculation
2023 Set 2	2	calculation
2022 Set 1	3	calculation
2022 Set 2	3	calculation
2019 Set 1	3	calculation
2018	3	calculation
2016	3	calculation
2015	3	calculation
2014	2	calculation

13.4 Inductance

1 question • calculation

Source	Q	Type
2026	3	calculation

13.5 Circuits with Resistors and Inductors (LR Circuits)

4 questions • calculation x4

Source	Q	Type
2026	3	calculation
2024 Set 1	2	calculation
2024 Set 2	2	calculation
2019 Set 1	2	calculation