

Cambridge IGCSE Maths 0580 Coordinate geometry and Geometry Practice Exam: Mark Scheme

Cambridge IGCSE Mathematics (0580), Core and Extended · 24 questions · 50 marks

- M marks are for a correct method; A marks for an accurate answer that follows a correct method; B marks are independent of method.
- Accept any correct method that reaches a correct answer, unless the question says which method to use.
- Practise these topics online with instant feedback: [igcsemathrevision.com/igcse-unit.html?course=cie0580&unit=3](https://www.igcsemathrevision.com/igcse-unit.html?course=cie0580&unit=3)

Section A: no calculator

Question 1 1 mark

B1 cube

Final answer: cube

Question 2 2 marks

B1 (a) (4, -2)

B1 (b) (0, 3)

Final answer: (a) (4, -2) (b) (0, 3)

Question 3 2 marks

B2 -1, 1, 3, 5, 7 (B1 for 3 or 4 correct)

Final answer: -1, 1, 3, 5, 7

Question 4 2 marks

M1 $(7 - 1) \div (2 - 0)$

A1 3

Final answer: 3

Question 5 2 marks

B1 gradient 4

B1 y-intercept -7

Final answer: gradient 4, y-intercept -7

Question 6 2 marks

B1 (a) $y = 3x + 1$ and $y = 3x - 4$

B1 (b) -2

Final answer: (a) $y = 3x + 1$ and $y = 3x - 4$ (b) -2



Question 7**2 marks****B1** (a) 133**B1** (b) 155**Final answer:** (a) 133 (b) 155**Question 8****2 marks****B1** angle $ACB = 90^\circ$ (angle in a semicircle)**B1** 55° **Final answer:** 55° **Question 9****2 marks****B2** $(-3, -4)$ (B1 for one coordinate correct)**Final answer:** $(-3, -4)$ **Question 10****2 marks****B2** $-3, -2, -1, 0, 1$ (B1 for 3 or 4 correct)**Final answer:** $-3, -2, -1, 0, 1$ **Question 11****2 marks****M1** $(6 - 3) \div (4 - (-2))$ **A1** $1/2$ oe**Final answer:** $\frac{1}{2}$ **Question 12****2 marks****M1** $2 \times 2 - (-3)$ or $2 \times (-1) - 4$, or a correct step from A to M repeated**A1** $(7, -6)$ **Final answer:** $(7, -6)$ **Question 13****2 marks****M1** $1 = 3 \times 2 + c$ **A1** $y = 3x - 5$ **Final answer:** $y = 3x - 5$ **Question 14****2 marks****B2** 8 faces, 18 edges, 12 vertices (B1 for two correct)**Final answer:** 8 faces, 18 edges, 12 vertices

Question 15**2 marks****B1** (a) yes and (c) yes**B1** (b) no, because $2 + 3 = 5$ is not greater than 5**Final answer:** (a) yes (b) no (c) yes**Question 16****2 marks****B1** (a) 225° **B1** (b) 045° **Final answer:** (a) 225° (b) 045° **Question 17****2 marks****B1** (a) square**B1** (b) kite (or isosceles trapezium)**Final answer:** (a) square (b) kite (or isosceles trapezium)**Question 18****2 marks****B1** (a) 64° **B1** (b) 116° **Final answer:** (a) 64° (b) 116° **Question 19****2 marks****M1** $x + 2x = 90$ **A1** 30**Final answer:** $x = 30$ **Question 20****3 marks****B1** centre (3, 0)**M1** $\sqrt{8^2 + 6^2} = 10$ for the diameter**A1** radius 5**Final answer:** centre (3, 0), radius 5**Question 21****3 marks****B1** 8 faces**B1** 12 edges**B1** 6 vertices**Final answer:** 8 faces, 12 edges, 6 vertices

Question 22**3 marks**

M1 $2 \times (35 + 5h + 7h) = 190$

M1 $35 + 12h = 95$ or $24h = 120$

A1 5 cm

Final answer: 5 cm**Section B: calculator allowed**

Question 23**2 marks**

B1 $y = 3x - 4$

B1 gradient 3

Final answer: $y = 3x - 4$, gradient 3**Question 24****2 marks**

M1 $27 \div 18 = 1.5$

A1 9.6 cm

Final answer: 9.6 cmEnd of mark scheme · More free exams: [igcsemathrevision.com/free-practice-exams](https://www.igcsemathrevision.com/free-practice-exams)