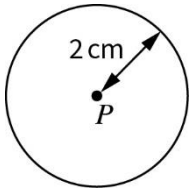
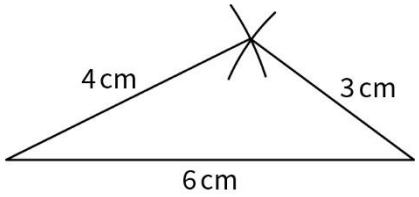
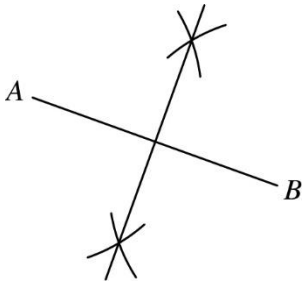
Oxford Revise | AQA GCSE Maths Foundation| Answers

Chapter 25 Constructions, loci, and bearings

Question	Answer	Extra information	Marks
25.1		Circle with centre P 2 cm radius	1 1
25.2 (a)	B: The sum of the two smaller sides must be greater than the longest side.		1
25.2 (b)		Two sides correctly drawn Fully correct diagram (any orientation)	1 1
25.3 (a)		Intersecting construction arcs either side of the line segment Fully correct diagram	1 1

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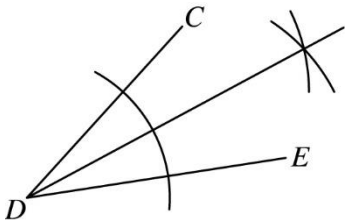
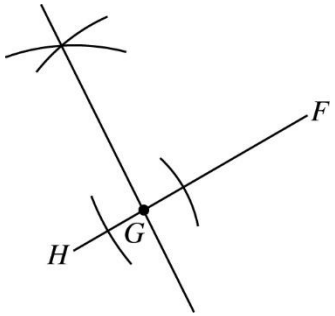
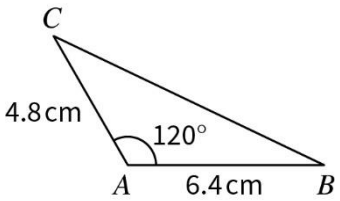
Question	Answer	Extra information	Marks
25.3 (b)		Construction arcs intersecting between C and E Fully correct diagram	1 1
25.4	Accurately drawn triangle	6 cm side and either angle correctly drawn Fully correct diagram	1 1
25.5		Construction arcs both sides of G Second set of intersecting construction arcs either side of the line segment Fully correct diagram	1 1 1
25.6	SAS known, so use ruler and protractor 	$120°$ angle correctly drawn Either a 6.4 cm side or a 4.8 cm side correctly drawn Fully correct diagram	1 1 1

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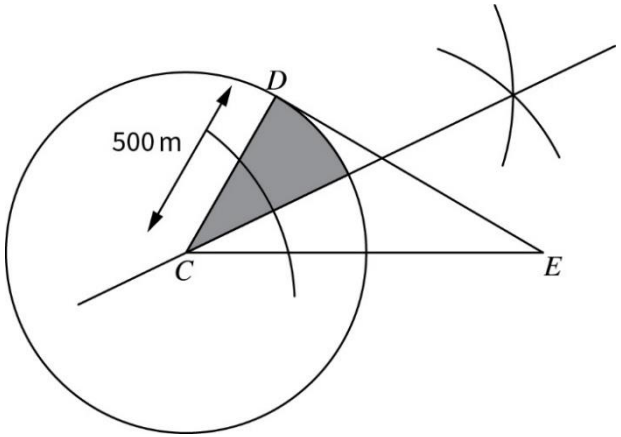
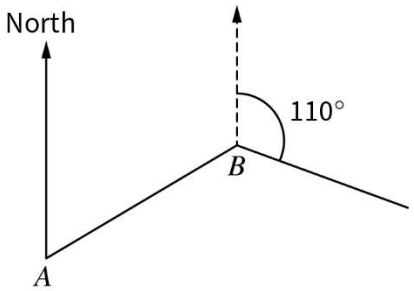
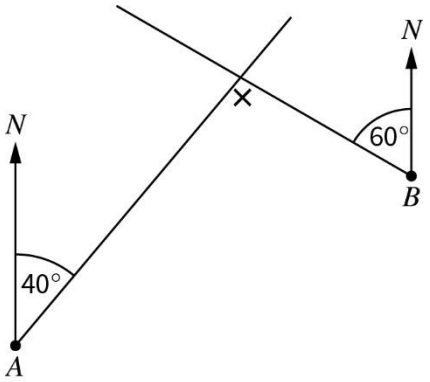
25.7		Pair of intersecting arcs in the space between D and E Angle bisector drawn Circle or arc centre C with radius of CD Correctly shaded diagram	1 1 1 1
25.8 (a)	060°	Must be 3 figures	1
25.8 (b)		Line drawn on a bearing of 110°	1
25.9	$180 - 30 = 150$ $90 + 150 = 240$ Bearing is 240°	Subtracting 30 from 180 (angles on a straight line) Correct answer	1 1

Question	Answer	Extra information	Marks
25.10		Line drawn from A on a bearing of $040°$ Line drawn from B on a bearing of $300°$ X labelled in the correct position	1 1 1
25.11	Enlargement, scale factor 2, about the point $(–4, 4)$	Enlargement Scale factor 2 $(–4, 4)$	1 1 1
25.12	$x = 3$ and $y = 4$, since $3^2 + 4^2 = 5^2$		1