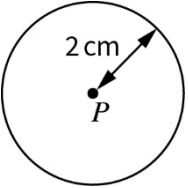
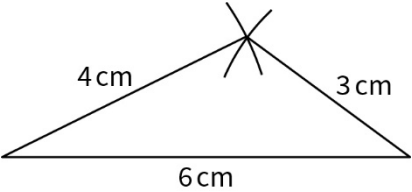
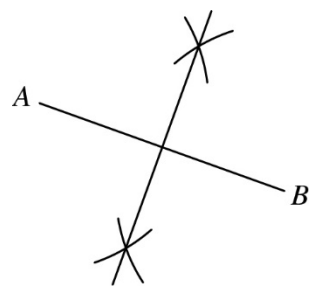
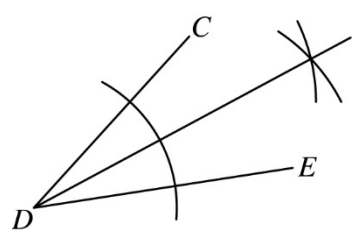
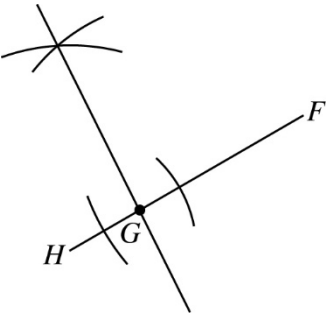
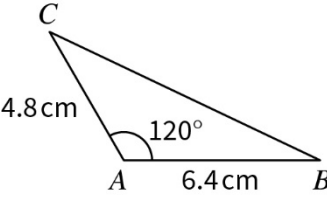


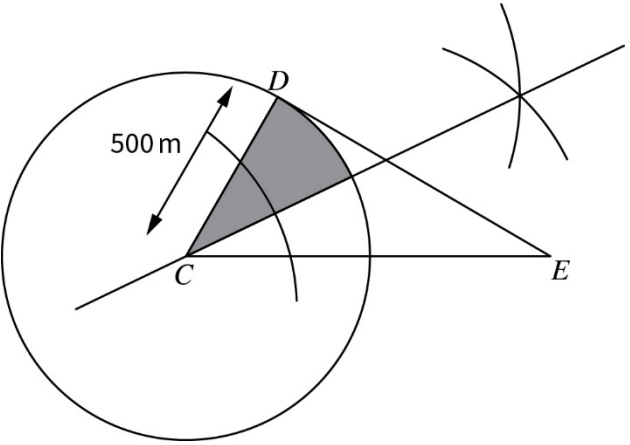
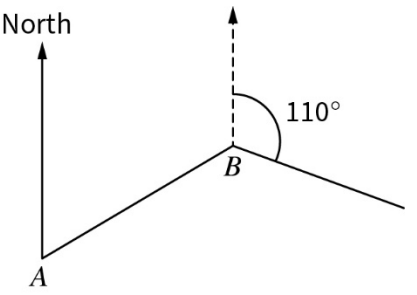
# Oxford Revise | Edexcel GCSE Maths Foundation | Answers

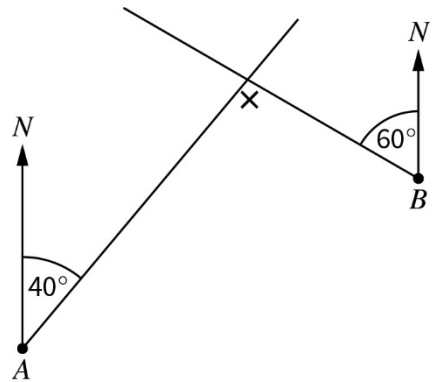
## Chapter 25 Constructions, loci, and bearings

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

Question	Answer	Extra information	Marks
25.3 (a)		<p>Intersecting construction arcs either side of the line segment</p> <p>Fully correct diagram</p>	<p>1</p> <p>1</p>
25.3 (b)		<p>Construction arcs intersecting between <i>C</i> and <i>E</i></p> <p>Fully correct diagram</p>	<p>1</p> <p>1</p>
25.4	Accurately drawn triangle	<p>6 cm side and either angle correctly drawn</p> <p>Fully correct diagram</p>	<p>1</p> <p>1</p>

Question	Answer	Extra information	Marks
25.5		<p>Construction arcs both sides of <math>G</math></p> <p>Second set of intersecting construction arcs either side of the line segment</p> <p>Fully correct diagram</p>	<p>1</p> <p>1</p> <p>1</p>
25.6	<p>SAS known, so use ruler and protractor</p> 	<p><math>120^\circ</math> angle correctly drawn</p> <p>Either a 6.4 cm side or a 4.8 cm side correctly drawn</p> <p>Fully correct diagram</p>	<p>1</p> <p>1</p> <p>1</p>

Question	Answer	Extra information	Marks
25.7		<p>Pair of intersecting arcs in the space between <i>D</i> and <i>E</i></p> <p>Angle bisector drawn</p> <p>Circle or arc centre <i>C</i> with radius of <i>CD</i></p> <p>Correctly shaded diagram</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p>
25.8 (a)	060°	Must be 3 figures	1
25.8 (b)		Line drawn on a bearing of 110°	1

Question	Answer	Extra information	Marks
25.9	$180 - 30 = 150$ $90 + 150 = 240$ Bearing is $240^\circ$	Subtracting 30 from 180 (angles on a straight line) Correct answer	1 1
25.10		Line drawn from $A$ on a bearing of $040^\circ$ Line drawn from $B$ on a bearing of $300^\circ$ $X$ 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

Question	Answer	Extra information	Marks
25.12	Accurate drawing of triangle with sides $AB = 3\text{ cm}$ , $AC = 4\text{ cm}$ and $BC = 5\text{ cm}$	3 marks for accurate diagram (side lengths $\pm 2\text{ mm}$ ) Or 2 marks for accurately drawn base line (side lengths $\pm 2\text{ mm}$ ) and arcs correctly drawn or 1 mark for accurately drawn base line (side lengths $\pm 2\text{ mm}$ ) or arcs correctly drawn	3