

Question	Answer	Mark	Mark scheme	Additional guidance
12	64	M1	<p>for finding angle <math>ABC = 46</math> or <math>\frac{360 - 2 \times (180 - 46)}{2} (= 46)</math></p> <p><b>or</b></p> <p>for finding angle on straight line with 46, eg <math>180 - 46 (= 134)</math></p> <p>M1 for method to find angle <math>ACB</math>, eg <math>180 - 110 (= 70)</math> or <math>\frac{360 - 2 \times 110}{2} (= 70)</math></p> <p><b>or</b></p> <p>for <math>x + [\text{angle } ABC] = 110</math> oe or <math>x + "70" = "134"</math></p> <p>M1 for method to find angle <math>CAB</math>, eg <math>(x =) 180 - "46" - "70" (= 64)</math> or <math>(x =) 110 - [\text{angle } ABC]</math></p> <p>C2 for 64 <b>and</b> full reasons for their method from, eg vertically <u>opposite angles</u> are equal / <u>vertically opposite</u> angles are equal <u>angles</u> on a <u>straight line</u> add up to 180 <u>angles</u> in a <u>triangle</u> add to 180 <u>angles</u> at a <u>point</u> add up to 360 the <u>exterior angle</u> of a triangle is <u>equal</u> to the sum of the <u>interior opposite angles</u></p> <p>(C1 (dep M1) for one correct reason)</p>	<p>Angles may be seen on diagram. Angles must be clearly labelled on the diagram or otherwise identified.</p> <p>[angle <math>ABC</math>] must be less than 110 and clearly labelled on the diagram or otherwise identified.</p> <p>Underlined words need to be shown; reasons need to be linked to their method; if student gives any incorrect reasons, award maximum C1 only</p> <p>Accept ‘<math>\sphericalangle</math>s’ for ‘angles’ Accept ‘<math>\triangle</math>’ for ‘triangle’</p> <p>For C1, ignore any reasons not linked to their method</p>