

1	<i>CB</i> extended to form <i>CG</i>	Reasoning	B1	for 35 or 75 or 145 or 105 or $DEF = 70$, marked on the diagram or 3 letter description
			M1	for 180-70-35 or 180-75-35 or a correct pair of angles that would lead to 75 or 70, eg $AFB = 35$ and $FAB = 75$ or $AFB = 35$ and $ABG = 75$ or $FBC = 35$ and $ABG = 75$ or $EDF = 75$ and $DEF = 70$ or $FDC = 105$ and $FBC = 35$ or $ABC = 105$ and $FBC = 35$
			C2	(dep on B1M1) All figures correct with all appropriate reasons stated. Angles must be clearly labelled or on the diagram. Full solution must be seen
			(C1)	(dep on B1 or M1) for one reason clearly used and stated. <u>Corresponding</u> angles are equal, <u>alternate</u> angles are equal, <u>opposite angles in a parallelogram</u> are equal, <u>angles in a triangle</u> sum to 180, <u>angles on a straight line</u> sum to 180, <u>vertically opposite angles</u> are equal, <u>vertically opposite angles</u> are equal, <u>angles in a quadrilateral</u> sum to 360, <u>co-interior</u> angles sum to 180, <u>allied</u> angles sum to 180, <u>angles around a point</u> sum to 360

2	93	M1	for method to find angle ACB , eg. $180 - 75 - 51 (= 54)$	Angles may be shown on diagram but must not be ambiguous eg. M0 for angle of 54° shown in the wrong place
		M1	(dep M1) for method to use the ratio, eg. " 54 " \div ($2 + 1$) ($= 18$)	
		M1	for complete method, eg. $180 - 51 - "18" \times 2$ or $75 + "18"$ oe	
		A1	cao	

3	85 with working and reasons	M1	for correct use of corresponding angles eg $AEB = 63$ or co-interior angles eg $BCD = 180 - 148 (= 32)$ or $DEB = 180 - 63 (= 117)$	Angles must be clearly labelled on the diagram or otherwise identified. Full solution must be seen. Correct method can be implied from angles on the diagram if no ambiguity or contradiction. When reasons are given the key words <u>underlined</u> must be present. Reasons need to be linked to their method; any reasons not linked, do not credit. There should be no incorrect reasons given.
		M1	for a complete method to find angle EAB eg. $180 - "63" - (180 - 148)$ or $148 - "63"$ or " $117" - (180 - 148)$	
		A1	for $EAB = 85$ (identified)	
		C2	(dep on M2) all working correct with all appropriate reasons stated. <u>Corresponding</u> angles are equal <u>Allied</u> angles / <u>Co-interior</u> angles add up to 180 <u>Angles</u> on a <u>straight line</u> add up to 180 <u>Angles</u> in a <u>triangle</u> add up to 180 The <u>exterior angle</u> of a triangle is <u>equal</u> to the sum of the <u>interior opposite angles</u> .	
		(C1)	for one reason relating to parallel lines clearly used and stated or for any two reasons clearly stated for their fully correct method)	