Question	Working	Answer	Mark	Notes
	Working with *CD* and then triangle *ABD*			
10	E.g. $\tan 20 = \frac{CD}{13}$			M1 for a correct statement or equation including *CD* as the only variable E.g. $CD^2 = \left(\frac{13}{\cos 20}\right)^2 - 13^2$
	E.g. (*CD* =) 13tan20 **or** 4.7(316...)			M1 for a correct method to find *CD* E.g. $\sqrt{\left(\frac{13}{\cos 20}\right)^2 - 13^2}$
	E.g. tan(*BAD*) = $\frac{8 + "4.73"}{13}$ **or** tan(*BAD*) = 0.97(93...)			M1 for a correct statement or equation including angle *BAD* as the only variable
	E.g. (BAD =) $\tan^{-1}("0.979")$ **or** 44.4(024...)			M1 for a correct method to find angle *BAD*
		24.4	5	A1 for 24.3 - 24.41 Award M1A1M1M1A0 for an answer in the range 44.3 – 44.41

Question	Working	Answer	Mark	Notes
10	**Alternative mark scheme – working with *AC* and then triangle *ABC***			
	E.g. $\cos 20 = \frac{13}{AC}$			M1 for a correct statement or equation including *AC* as the only variable E.g. $AC^2 = 13^2 + (13\tan 20)^2$
	E.g. $(AC =) \frac{13}{\cos 20}$ **or** $13.8(3\ldots)$			M1 for a correct method to find *AC* E.g. $\sqrt{13^2 + (13\tan 20)^2}$
	E.g. $(AB =) \sqrt{"13.8"^2 + 8^2 - 2\times 13.8\times 8\times \cos(110)}$ (=18.1(9..) **or** 18.2			M1 for a correct method to find *AB*
	E.g. $\frac{\sin BAC}{8} = \frac{\sin 110}{"18.1"}$ **or** $8^2 =$ "13.8"^{2} + "18.1"^{2} – 2 × "13.8"×"18.1"×cos *BAC*			M1 for a correct statement or equation including angle *BAC* as the only variable
		24.4	5	A1 for ans in range 24.3 - 24.41 Award M4A0 for an answer in the range 44.3 – 44.41