Question			Answer	Marks	AO	Guidance	
2	(a)		$14(5\sin\theta) = 50$	M1*	1.1	Correct method for finding either the supplement of the required angle *DAB* (e.g. $2\left(\frac{1}{2}\times 5\times 14\times\sin\theta\right) = 50$) **or** the angle ($\alpha$) between *DA* and the vertical (e.g. $14(5\cos\alpha) = 50$)	Where θ is the supplement to the required angle *DAB*
			$\theta = \sin^{-1}\frac{5}{7} = 45.6$ or better or $\alpha = \cos^{-1}\frac{5}{7} = 44.4$ or better	M1dep*	1.1	For either obtuse or acute angle	
			Angle *DAB* = 134.4	A1 [3]	1.1	awrt 134.4	134.4153086…
2	(b)		$(BD^2 =)5^2 + 14^2 - 2(5)(14)\cos('134.4')$	M1	1.1	Correct application of cosine rule with their *DAB* or other complete method	Allow this mark even if angle *DAB* is acute
			(BD =) 17.9	A1 [2]	1.1	awrt 17.9	For ref: If using 1 d.p. from **(a)** then 17.8592516…, if using 'exact' value then should obtain 17.85999971…