11	(AX =) (17.6 – 8.4) ÷ 2 (= 4.6)		6	M1	where X is the foot of the perpendicular from B to AD
	0.5 × (8.4 + 17.6) × h = 179.4 **or** 0.5 × '4.6' × h + 0.5 × '4.6' × h + 8.4 × h = 179.4 **or** 13 × h = 179.4			M1	
	(h =) 179.4 ÷ '13' (=13.8) **or** (h =) 358.8 ÷ '26' (=13.8) oe			M1	
	$\tan ABX = \frac{'4.6'}{'13.8'}$ **or** $\tan BAX = \frac{'13.8'}{'4.6'}$			M1	ft their h dep on second M1 $(AB =)\sqrt{'4.6'^2+'13.8'^2} = \sqrt{211.6}$ = (14.546…) **and** one from $\sin ABX = \frac{'4.6'}{'\sqrt{211.6}'}$ or $\sin BAX = \frac{'13.8'}{'\sqrt{211.6}'}$ or $\cos ABX = \frac{'13.8'}{'\sqrt{211.6}'}$ or $\cos BAX = \frac{'4.6'}{'\sqrt{211.6}'}$ or $\sin ABX = \frac{'4.6'\times\sin 90}{'\sqrt{211.6}'}$ or $\cos ABX = \frac{'\sqrt{211.6}'+'13.8'^2-'4.6'^2}{2\times'\sqrt{211.6}'\times'13.8'}$
	(ABX =) $\tan^{-1}\left(\frac{'4.6'}{'13.8'}\right)$ (= 18.4) **or** (BAX =) $\tan^{-1}\left(\frac{'13.8'}{'4.6'}\right)$ (= 71.6)			M1	
		108.4		A1	awrt 108.4
					Total 6 marks